Safety and trouble shooting
About this manual
Product information
Installing your monitor
On-screen display
Customer care and warranty
FAQ
Glossary
Download & print
EXIT

107E

Electronic User's Manual

Safety and Troubleshooting Information

Safety Precautions and Maintenance • Troubleshooting • Regulatory Information • Other Related Information

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Safety precautions and maintenance

WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

Read and follow these instructions when connecting and using your computer monitor:

- Disconnect the monitor from the power supply if the monitor is not to be used for an extended period of time.
- Do not attempt to remove the back cover, as you will be exposed to a shock hazard. The back cover should only be removed by qualified service personnel.
- Do not place objects on top of the monitor cabinet, objects could fall into vents or cover them and prevent proper cooling of the monitor's electronic devices.
- To avoid the risk of shock or permanent damage to the set, do not expose the monitor to rain or excessive moisture.
- Do not use alcohol or ammonia-based liquid to clean the monitor. If necessary, clean with a slightly damp cloth. Disconnect the monitor from the power supply before cleaning.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.
- When using the monitor, please make sure to install the swivel base for safety concern.

Consult a service technician if the monitor does not operate normally when operating instructions of this manual are followed.

RETURN TO TOP OF THE PAGE

About This Electronic User's Manual

About This Guide • Other Documents You May Need • Notational Descriptions

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About This Guide

This electronic user's guide is intended for anyone who uses the Philips Color Monitor. It describes the monitor's features, setup, operation and all other information, which is the same exact information described in our printed version.

The sections are as follows:

- Safety and Troubleshooting Information provides tips and solutions for common problems, and other related information you may need.
- About This Electronic User's Manual gives overview of what information are included as well as notation icon descriptions and other documentation you can refer to.
- Product Information gives an overview of the monitor's features and as well as the technical specifications for this monitor.
- Installing Your Monitor describes the initial setup process and gives an overview of how to use the monitor.
- On Screen Display provides information on adjusting the settings on your monitor.
- Customer Care and Warranty is a list of worldwide Philips consumer information centers along with the help desk phone numbers and information on the applicable warranty of your product.
- Glossary provides more information for technical terms.
- Download allows users to install the entire manual on their hard drive.
- Frequently Asked Questions provides answers to commonly asked questions.

RETURN TO TOP OF THE PAGE

Other Documents You May Need

In addition to this *Electronic User's Guide*, you may need to refer to the following documentation:

- *Philips Color Monitor Quick Start Guide* which summarizes the steps for setting up the monitor. This is included with this product.

RETURN TO TOP OF THE PAGE

Notational Descriptions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

NOTE: This icon indicates important information and tips that help you make better use of your computer system.

CAUTION: This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.

WARNING: This icon indicates the potential for bodily harm and tells you how to avoid the problem.

SMART HELP: This icon indicates helpful information when adjusting the On Screen Display of your monitor.

Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

RETURN TO TOP OF THE PAGE

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Product Information

Product Features • Lead-free product • Technical Specifications • Automatic Power Saving • Physical Specification • Pin Assignment • Product Views

---

Product Features

Model	Regulation	Color
107E70	TCO'03	Grey
107E71	MPRII	Grey
107E76	MPRII	Black

107E7

- 17-inch (16.0" VIS) color monitor with excellent front of screen performance for use with MACs and PCs
- Autoscan covers horizontal frequencies up to 71 kHz offering a maximum resolution of 1280 x 1024

- Flat square High Contrast CRT with high-resolution 0.27 mm dot pitch (0.23 hdp).
- Large screen display in a small footprint: 17-inch conventional monitor with maximum depth of only 419 mm/16.5"
- Multimedia Base option
- sRGB for true on screen color representation.
- FCC, CE (in selected countries only) and ISO9241, ISO14001 certified

RETURN TO TOP OF THE PAGE

Lead-free product

Philips eliminated toxic substances like lead from its displays. Lead-free display helps protect your health and promotes environmentally sound recovery and disposal of waste from electrical and electronic equipment. Philips complies with the European Community stringent RoHS Directive mandating restrictions on hazardous substances in electrical and electronic equipment. With Philips, you can be confident that your display device does not harm the environment.

Technical Specifications*

CRT

• Size and deflection	17 inch / 41 cm ; 90° deflection angle
• Dot pitch	0.27 mm
• Horizontal pitch	0.23 mm
• Tube type	Shadow mask, flat square, high contrast, anti-glare, anti-static, anti reflection
• Phosphor	P22
• Recommended display area	12.0" x 9.0" / 306 x 230 mm
• Maximum display area	12.8" x 9.6" / 325 x 244 mm

SCANNING

• Horizontal scanning	30 - 71 KHz
• Vertical scanning	50 - 160 Hz

VIDEO

• Video dot rate	110 MHz
• Input impedance	
- Video	75 Ohm
- Sync	1.8 kOhm
• Input signal levels	0.7 Vpp
• Sync input signal	Separate sync
• Sync polarities	Positive and negative

WHITE COLOR TEMPERATURE

Chromaticity CIE coordinates:

• at 9300 degrees K	x = 0.283 / y = 0.297
• at 6500 degrees K	x = 0.313 / y = 0.329
• at sRGB	x = 0.313 / y = 0.329

PRESET MODES

720 x 400 @ 70 Hz

640 x 480 @ 60 Hz

640 x 480 @ 85 Hz

800 x 600 @ 75 Hz

800 x 600 @ 85 Hz

1024 x 768 @ 75 Hz

1024 x 768 @ 85 Hz

1280 x 1024 @ 60 Hz

sRGB

sRGB is a standard for ensuring correct exchange of colors between different devices (e.g. digital cameras, monitors, printers, scanners, etc.)

Using a standard unified color space, sRGB will help represent pictures taken by an sRGB compatible device correctly on your sRGB enabled Philips monitors. In that way, the colors are calibrated and you can rely on the correctness of the colors shown on your screen.

Important with the use of sRGB is that the brightness and contrast of your monitor is fixed to a predefined setting as well as the color gamut. Therefore it is important to select the sRGB setting in the monitor's OSD.

To do so, open the OSD by pressing the MENU button on the front of your monitor. Use the down button to go to Color temperature and press MENU again. Then move the down button to go to sRGB and press MENU again.

Exit this OSD.

After this, please don't change the brightness or contrast setting of your monitor. If you change either of these, the monitor will exit the sRGB mode and go to a color temperature setting of 6500K.

** These information are subject to change without notice.*

RETURN TO TOP OF THE PAGE

Automatic Power Saving

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. And if an input from a keyboard, mouse or other input device is detected, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving features:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
Active	ON	Yes	Yes	<75W	0 %	Green
Sleep	OFF	No	No	< 2W	99%	Flashing Green
Switch Off	OFF	--	--	< 2W	99%	Off

RETURN TO TOP OF THE PAGE

Physical Specifications

• Dimensions	15.6" x 15.0" x 16.3" / 397 x 382 x 415 mm (including base) 15.6" x 13.1" x 16.3" / 397 x 333.5 x 415 mm (excluding base)
• Weight	12.5kg
• Power supply	100 - 240 VAC, 60-50Hz (Please refer to rating label)
• Temperature (operating)	0° to 40°C / 32° to 104°F

- Temperature (storage) -25° to +65°C / -13° to +149°F
- Relative humidity(storage) 5% to 95%

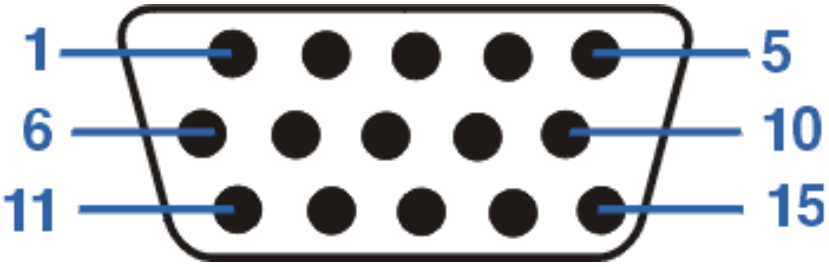
** Resolution 1280 x 1024, standard size, contrast max., brightness 50%, 9300°, full white pattern.*

** These information are subject to change without notice.*

RETURN TO TOP OF THE PAGE

Pin Assignment

The 15-pin D-sub connector (male) of the signal cable (IBM systems):



Pin No.	Assignment		Pin No.	Assignment
1	Red video input		9	+5V DDC supply
2	Green video input		10	Logic ground
3	Blue video input		11	Identical output - connected to pin 10
4	Identical output - connected to pin 10		12	Serial data line (SDA)
5	Self-test		13	H. Sync / H+V
6	Red video ground		14	V. Sync (VCLK for DDC)
7	Green video ground		15	Data clock line (SCL)
8	Blue video ground			

RETURN TO TOP OF THE PAGE

Views

Follow the links to see various views of the monitor and its components.

Front View

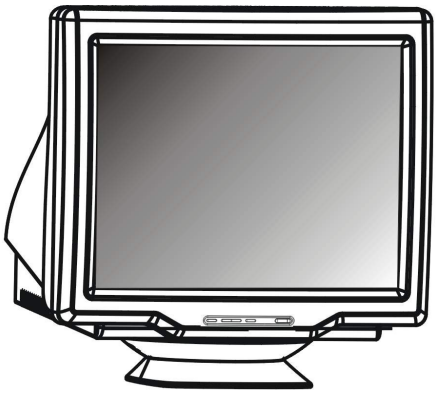
Rear View

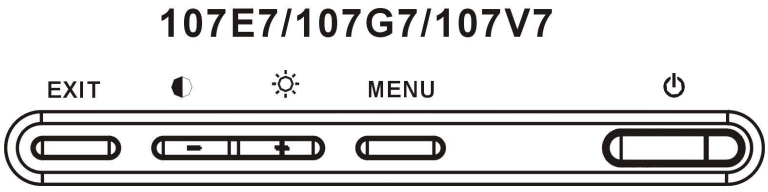
RETURN TO TOP OF THE PAGE

Installing your Monitor

Front View • Rear View

Front View

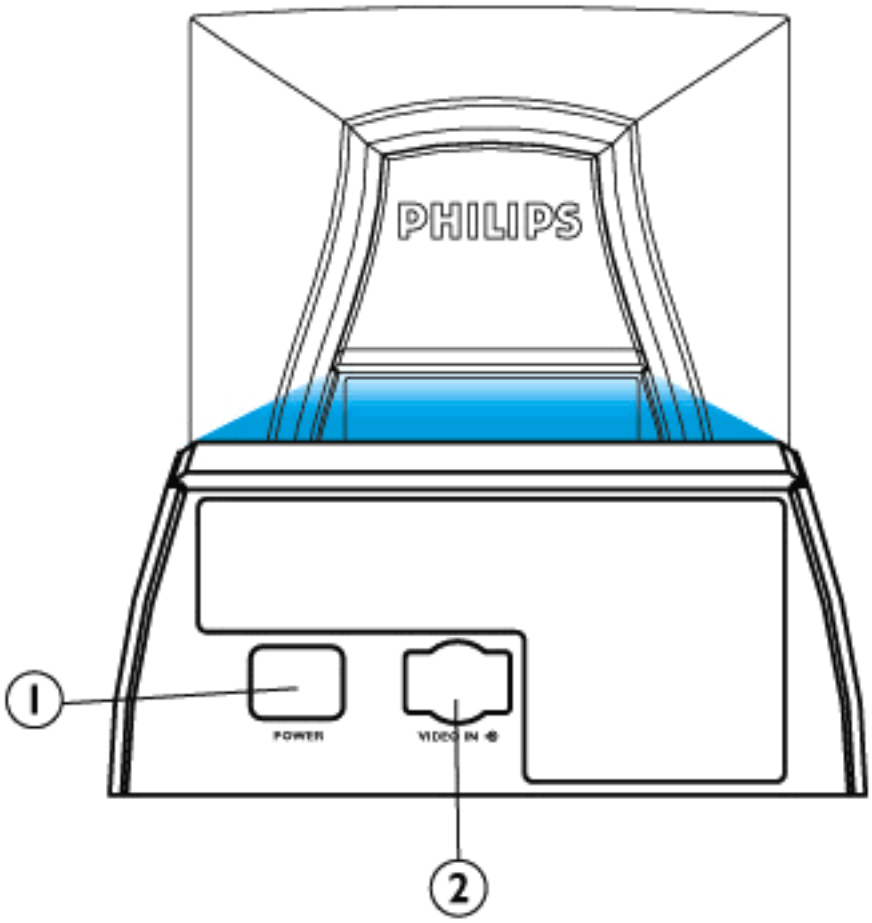


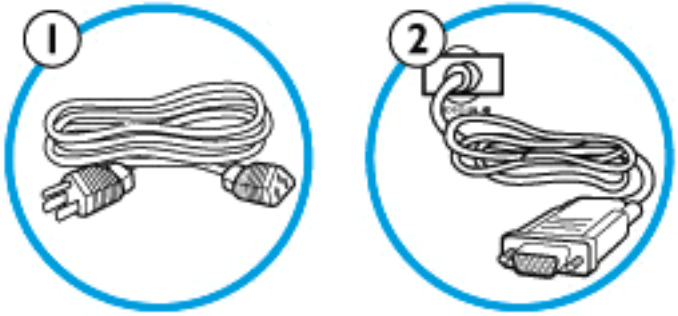


⏻	Power button switches your monitor on.
MENU	MENU button which when pressed will take you to the OSD controls
◑(-)	Contrast hotkey. When the ◑"-" button is pressed, the adjustment controls for the CONTRAST will show up or decrease adjustment.
☼(+)	Brightness hotkey. When the ☼"+" button is pressed, the adjustment controls for BRIGHTNESS will show up or increase adjustment.
EXIT	When the button is pressed, Exit the OSD menu.

RETURN TO TOP OF THE PAGE

Rear View





1. Power in - attach power cable here.
2. Video In - this is a cable which is already attached to your monitor. Connect the other end of the cable to your PC.

RETURN TO TOP OF THE PAGE

On-Screen Display

Description of the On-Screen Display • The OSD Tree • The OSD Controls

---

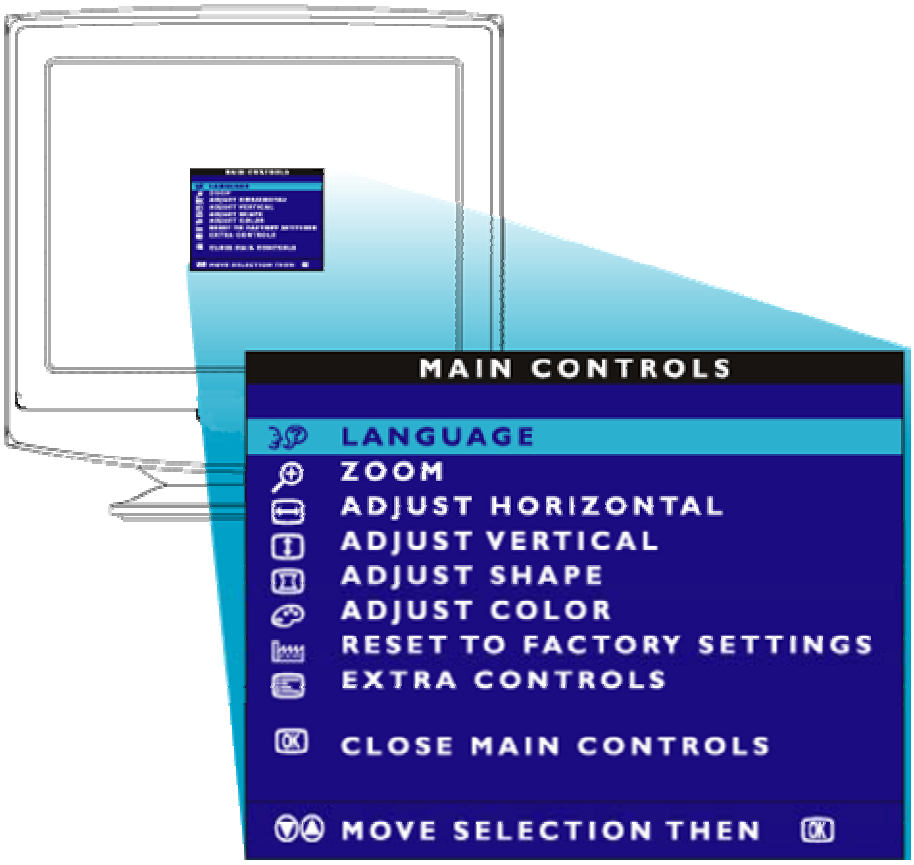
Description of the On Screen Display

What is the On-Screen Display?

This is a feature in all Philips monitors which allows an end-user to adjust screen performance of monitors directly through an on-screen instruction window. The user interface provides user-friendliness and ease-of-use when operating the monitor.

Basic and simple instruction on the control keys.

On the front controls of your monitor, once you press the MENU button, the On Screen Display (OSD) Main Controls window will pop up and you can now start making adjustments to your monitor's various features. Use the◑ (-) ☼(+) to make your adjustments within.

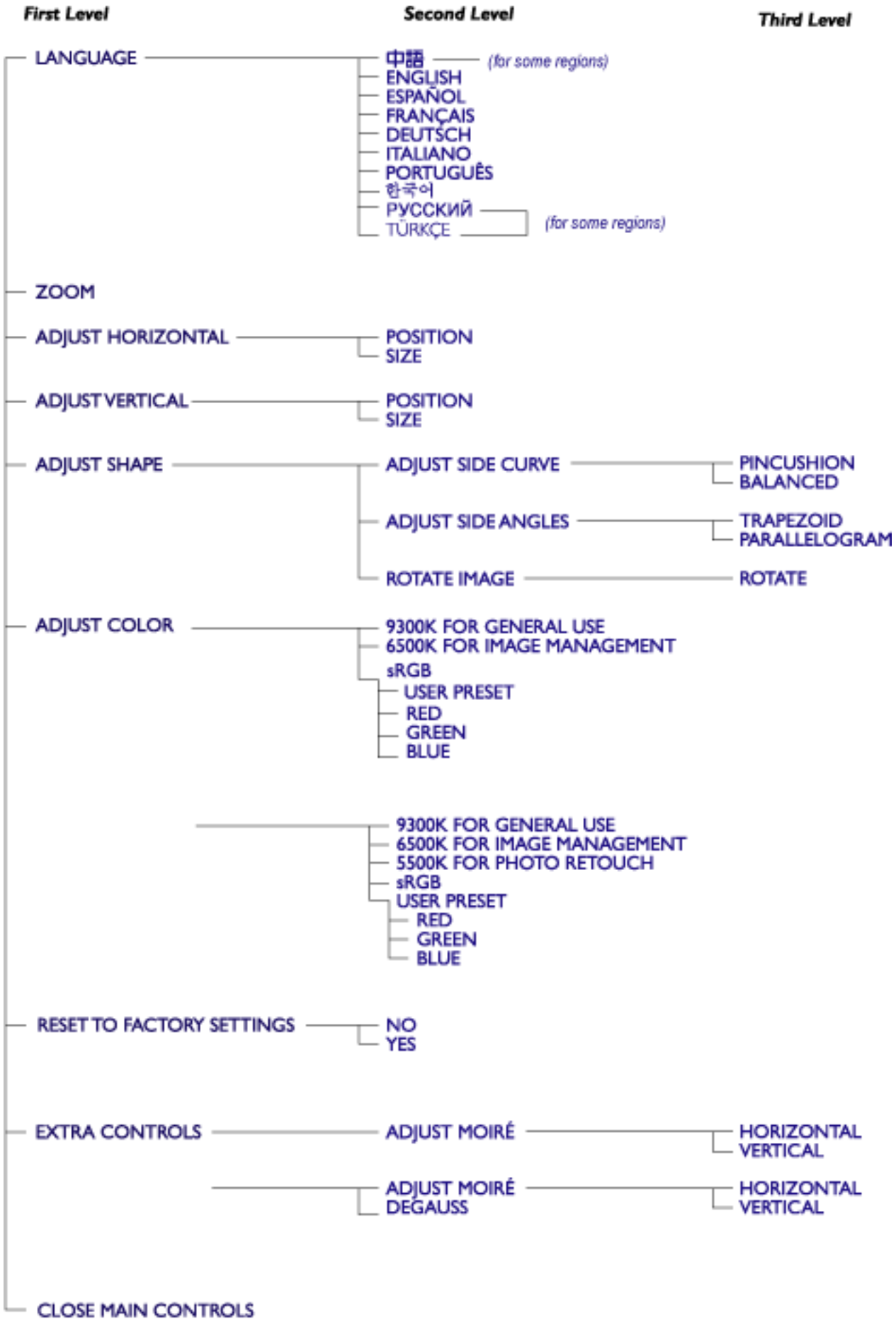


RETURN TO TOP OF THE PAGE

The OSD Tree

Below is an overall view of the structure of the On-Screen Display. You can use this as reference when you want to later on work your way around the different adjustments.

Your monitor may not include all the items in the OSD tree shown below.



• *Specifications are subject to change without prior notice.*

RETURN TO TOP OF THE PAGE

Customer Care & Warranty

PLEASE SELECT YOUR COUNTRY/AREA TO READ THE WARRANTY COVERED:

WESTERN EUROPE: Austria • Belgium • Cyprus • Denmark • France • Germany • Greece • Finland • Ireland • Italy • Luxembourg • the Netherlands • Norway • Portugal • Sweden • Switzerland • Spain • United Kingdom

EASTERN EUROPE: Czech Republic • Hungary • Poland • Russia • Turkey • Bulgaria • Slovakia • Slovenia

LATIN AMERICA: Antilles • Argentina • Brazil • Chile • Colombia • Mexico • Paraguay • Peru • Uruguay • Venezuela

NORTH AMERICA: USA & Canada

PACIFIC: Australia • New Zealand

ASIA: Bangladesh • China • Hong Kong • India • Indonesia • Japan • Korea • Malaysia • Pakistan • Philippines • Singapore • Taiwan • Thailand

AFRICA: Morocco • South Africa

MIDDLE EAST: Dubai • Egypt

Frequently Asked Questions

1. What does the "Designed for Windows" logo signify?

The "Designed for Windows" logo means your Philips monitor fulfills the requirements and recommendations of the PC9x (97, 98, or 99, 2000, XP) System Design Guide and passes stringent WHQL tests.

2. What models are Mac compatible?

All listed Philips monitors are Mac compatible. BUT, you may need an adapter to connect the monitor to your Mac system. Please contact your dealer/reseller for details.

3. What is TCO?

TCO is a Swedish abbreviation for the Swedish Confederation of Professional Employees.

4. What is MPR?

MPR is a Swedish abbreviation for the Swedish National Board of Measurement and Testing.

5. What are the differences between MPRII, TCO92, TCO95, TCO99 and TCO'03?

In the general hierarchy of standards, TCO'03/TCO99 is the highest level of certification. Next is TCO95, which is "better" than TCO92, which, in turn, is better than MPRII. Below, we compare the standards in each category.

-TCO 92 Phase out: June 30, 2000
-TCO 95 Phase out: December 31, 2003

Emissions:
MPRII: Set low emission rules for visual displays.

TCO92: Imposed more stringent standards than MPRII.
TCO95: Further toughened TCO92 rules.
TCO99: Delineated even more severe standards and test procedures than TCO95.
TCO'03: Same as TCO99 standard + Testing uncertainty.

Safety:
MPRII: No requirement.
TCO92/95/99/03: All set requirements.

Energy Saving:
MPRII: No requirement.
TCO92: Standby mode < 30W, Off mode < 8W
TCO95: Standby mode < 30W, Off mode < 8W
TCO99: Standby mode < 15W, Off mode < 5W
TCO'03:Standby mode < 15W, Off mode < 5W

Visual Ergonomics:
MPRII: No requirement.
TCO92: No requirement.
TCO95: Set ergonomic rules including minimum contrast level, flicker and jitter.
TCO99: Tightened TCO95 rules.
TCO'03: Tighten TCO99 rule for CRT and new requirement of screen color for TFT LCD Monitors.

Ecology:
MPRII: No requirement.
TCO92: No requirement.
TCO95: Set general ecological standards including recycling preparation, environmental policy and environmental certification.
TCO99: Further tightened TCO95 norms.
TCO'03:Require the recycling information to users.

6. How do I enable the energy saving function?

Go to 'My Computer' and select 'Control Panel' followed by "Monitor Control". Select "All default selection" and choose your Philips monitor model from the default driver list. Plug and Play will automatically enable the EPA tick box for you. In DOS or Windows 3.1, you must first make sure your PC supports power saving.

7. What is refresh rate?

"Refresh rate" describes the number of times an entire screen is vertically scanned each second. In other words: If a monitor's refresh rate is 85 Hz, its screen is refreshed - or vertically scanned - 85 times per second. A higher refresh rate means better image stability and less flicker. A high refresh rate helps users who work long hours in front of a monitor avoid eye fatigue and stress. To change the refresh rate, go into "Start/Settings / Control Pannel / Display / Properties / Setting/Advance/Adaptor" Windows settings of the computer, the monitor will automatically adjust itself to the video card.

8. Why does the picture on the screen appear to flicker?

A low refresh rate or electrical interference typically causes flickering in the picture. Possible solutions include the following:

- Verify that the proper drivers are installed for your video card
- Make sure that all electrical devices (such as mobile phones) are at least 1m from the monitor
- Place the monitor in another physical location away from electrical interference
- Adjust the refresh rate to 75hz or higher.

9. How do I adjust my monitor's resolution?

Available resolutions are determined by the capabilities of your video card and graphic driver. Under Windows '95, you may select the desired available resolution through the 'Display properties/Settings' menu.

10. How can I adjust the size, position and rotation of my screen?

Depending on the model you own, you can use your CustoMax Software, On Screen Display (OSD) or control knobs located on the monitor.

11. What if I get lost when making monitor adjustments?

Simply press MENU button then select "Reset to factory settings" to restore all settings.

Please contact your dealer/reseller for details.

12. What does Auto Calibrate do?

It makes your monitor perform better and last longer. As a monitor becomes older, brightness gradually deteriorates and its colors change. This well-known process effects all monitors. Eventually after a number of years, the monitor's brightness deteriorates to below 50% of its original value. At this stage, the usable life of a monitor is considered ended. Auto Calibrate regularly readjusts color temperature and luminance to their original values.

13. How does Philips Auto Calibrate feature benefit me?

With Auto Calibrate, it takes a monitor's luminance 33 percent longer to deteriorate to the 50 percent level that marks the end of a display device's useful life. Thanks to Auto Calibrate, a monitor with a normal life of 10,000 hours, for example, would last for 13,300 hours, a full one third longer.

14. How does Auto Calibrate work?

During the calibration process, different predefined black and white images are displayed on the screen. The beam currents of the red, green and blue cannon are accurately measured and compared to the original values stored in the monitor. By readjusting gain values of the individual cannons, deviation is reduced to zero. Default values are stored during production. If the user sets a new color temperature, this new value is saved as the new default value.

15. When should calibration be performed?

The calibration process takes less than six seconds. During this period, different specific images are displayed. After the process is finalized, the original image is redisplayed. Constant re-calibration is not required. Calibration should be performed after the monitor is warmed up. Auto Calibration takes place when a monitor receives a signal indicating an imminent switch to its sleep mode/stand-by mode.

16. Which models of Philips monitors are equipped with Auto Calibrate feature?

Auto Calibrate is currently available in the new 202P, 201B and 109P.

17. The Main Menu displays OSD MAIN MENU LOCKED . Pressing the front control panels hasno effect. How can I unlock this function?

Press and hold the OSD menu key for about 15 seconds until picture displays "OSD MAIN MENU UNLOCKED"

18. My screen shows NO SYNC INPUT , how can I get rid of this?

Check the following for possible solutions:

- Bent pins on the video cable
- Make sure the computer is turned on
- Ensure the VGA Cable is properly connected
- Ensure the BNC/D-Sub connector on the rear of the monitor is in the correct position, newer models have this option in the On Screen Display under Input Signal Selection.
- Video card may be not a VESA standard (try the monitor with another computer)

19. Why does my monitor display "Out of Range"?

The video card installed in your computer may be too high for the monitor 's specifications. Please contact your computer manufacturer for details on how to lower resolution for your operating system.

20. What is Moire? Why does my monitor have this wavy phenomenon?

Moire is a natural effect or phenomenon of CRT that has the appearance of a wavy pattern, which is repetitive and superimposed on the screen as ripple images. These are a few suggestions to help reduce or minimize the effects:

- Some monitors have a Moire cancellation feature, activate it to the on position or adjust the Moire cancellation function via the OSD on the monitor.
- Change resolution to the recommended standard for the specific monitor size.
- Change Window viewing pattern/scheme to a pattern where the Moire is less visible.
- Change horizontal and vertical size to optimize the reduction of the Moire effect.

21. My monitor appears to be missing one or more colors. How do I correct this?

- If the OSD menu is also missing a color, please contact service for details
- Set color temperature to 9300 color coordination
- Check the video cable for any bent pins
- Video card could be defective (try the monitor with another computer).

22. When I degauss my monitor, it makes a loud noise. Is this normal?

Yes, when degaussing your monitor via the OSD, it is normal for the monitor to make a relatively loud noise. Please be aware that many models will not degauss more than once within any given time period (up to 10 minutes). This is due to the unit having a temperature sensitive resistor. While the unit is degaussing, the resistor increases in value with heat and once it reaches a certain temperature, the resistance will rise and prevent voltage from reaching the degaussing coil. This is what stops the degausser, and this device's resistance will decrease as it cools back off, enabling the degauss function to operate again. This is an intentional design and is an industry standard, not just for Philips monitors. Please be aware that not all models in the Philips range has this manual degauss function. Some models are built with an auto degauss feature which automatically degausses the monitor when it is switched on.

23. How do I adjust the picture on the screen?

Please perform the following to correct the picture image:

- Reset your monitor via the OSD menu
- Adjust the Horz (width) and/or Vert size (height) in the OSD
- Change monitor timing to work at the recommended resolution

24. The edge of the picture on the screen appears to be distorted. How can I correct this?

Please perform the following to correct the picture image:

- A magnetic or electrical interference typically causes poor geometry in the picture. Place the monitor in a different physical location
- Reset the monitor to the factory preset via the OSD menu
- Access the Geometry Menu in the OSD of the Monitor and perform the necessary adjustments
- Change the monitor timing to the recommended resolution

25. The picture appears too dim. How can I correct this?

Adjust Brightness and/or Contrast via the monitor 's OSD. Some models have a Video Input Select

under Advanced Controls in the monitor 's OSD. Most computers require it to be set at 0.7V.

Please review the following for possible solutions:

- If the OSD menu is also dim, please contact service for repair
- Reset the monitor via the OSD menu
- Change the color temperature settings to 9300 color coordination via the OSD menu

- Set the Contrast to maximum level (100) and Brightness to middle level (50)

Video card could be defective (try the monitor with another computer)

26. How can I increase the color display of my monitor?

The amount of video memory your video card holds determines the amount of colors that can be displayed on your computer screen. To get the most out of your video card, you will need to either install the latest drivers onto your computer or upgrade the video cards memory. Please check with your computer or video card manufacturer for further details.

27. Why is there no picture on my monitor?

- Check the wall socket for power. Verify that there is power by connecting another product.
- Ensure the power cable is correctly attached to both the wall socket and the monitor.
- Check that the power button is switched on.
- Unplug the monitor for approx. 1 minute and plug it in again. Switch the monitor back on.

28. Why is there no picture on my monitor even though the power LED is yellow/amber or flashing green?

- Reboot your computer while holding the Ctrl key on your computer. If you see any picture during the boot procedure, please verify the settings of your video card (for Windows go to Control Panel and select Display).
- Check that the video cable is not damaged, bent or that any of the pins in the connector are damaged (please be aware that some VGA connectors have one missing pin). If damaged, replace with a new cable.

- Check that the cable is attached correctly to the computer.
- Press any key on the keyboard to wake-up the computer from power saving mode.

29. Why is there no picture on my monitor even though the power LED is green?

- Verify the Contrast and Brightness setting of the monitor. First press (-)then press(+) to increase Contrast and then press and hold the (+) button to increase Brightness. These buttons are located on the front of your monitor.

30. Why does the picture disappear after I press the on/off button quickly?

This is a unique Philips feature designed to preserve the life of your monitor. Please allow 5 seconds between powering off and on your monitor, your picture will then be restored.

Glossary

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A

Autoscan

A microprocessor-based feature of Philips Brilliance monitors is able to detect automatically horizontal and vertical frequencies of input signals with those of the installed video card. An autoscan monitor can thus operate with a wide range of video cards. MultiSync, a registered trademark of NEC, provides a similar function.

RETURN TO TOP OF THE PAGE

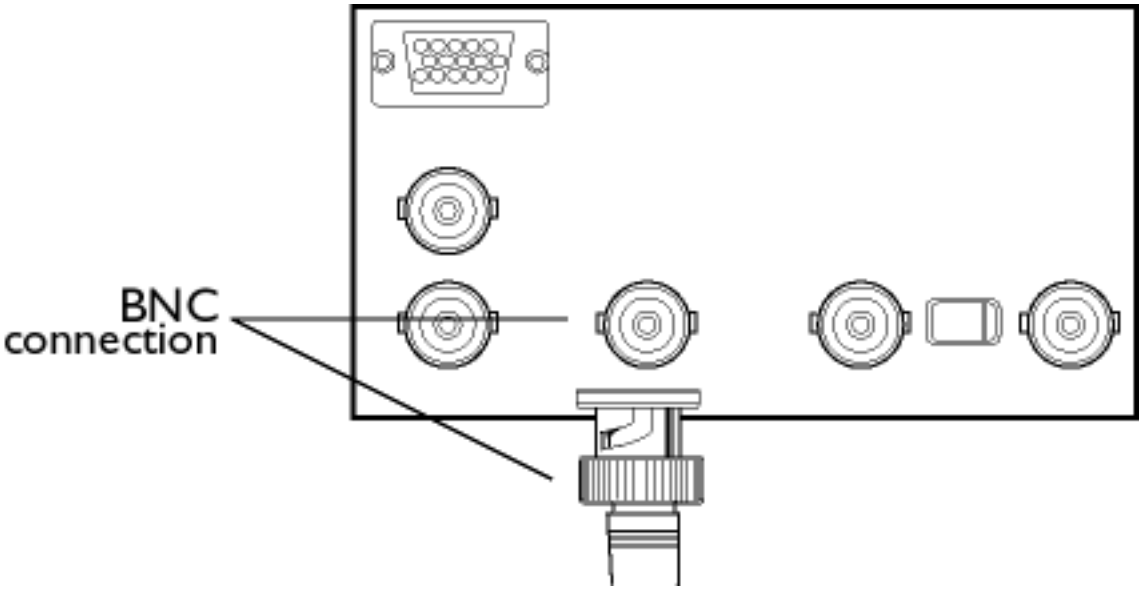
B

Balanced pincushion

See Geometric distortion

BNC connection

A special construction of connector used in some monitors with higher horizontal scanning frequency. The BNC connection can provide the optimum shielding and matching characteristic impedance of video signal path to ensure the best video performance.



RETURN TO TOP OF THE PAGE

C

CE Mark

CE mark is displayed on products per EMC and LV (low Voltage Device) directives in compliance with European Community safety, EMI and EMS requirements and is compulsory on products for sale in the European Community.

Color temperature

A way of describing the color of a radiating source in terms of the temperature (in degrees Kelvin) of a black body radiating with the same dominant frequency as the source.

Most Philips monitors offer the possibility of setting the color temperature to any desired value.

Contrast

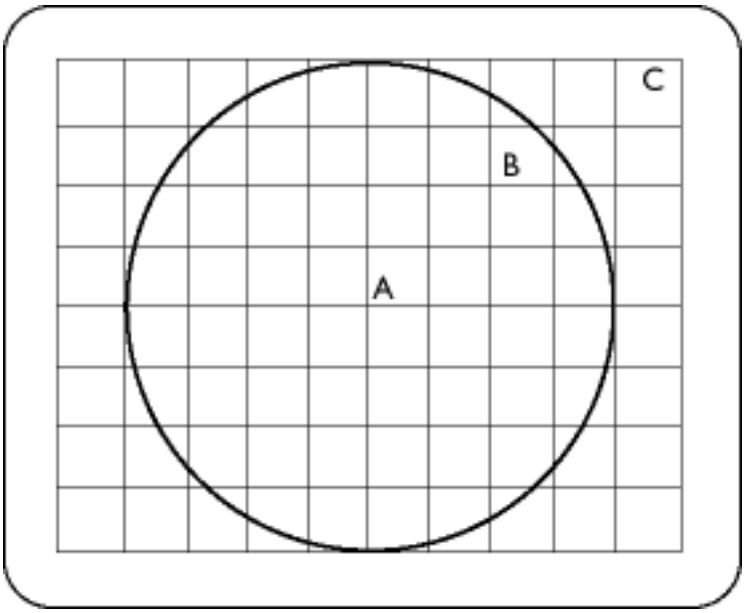
The ratio between the brightness of the brightest and darkest parts of a picture. The darkest part of

a picture is set by the brightness of the unexcited phosphor, which is governed by the degree with which ambient light is reflected. Contrast is therefore reduced in conditions of high ambient light levels. Black Matrix tubes reflect less ambient light so exhibit higher contrast than other tubes.

Convergence error

Bean misalignment causing one or more of the three beams passing through the wrong aperture in the shadow mask and striking a phosphor dot in the wrong triad.

Convergence error is expressed in mm often at three well-defined points on the screen, designated A, B and C (see figure). Also known as misconvergence.



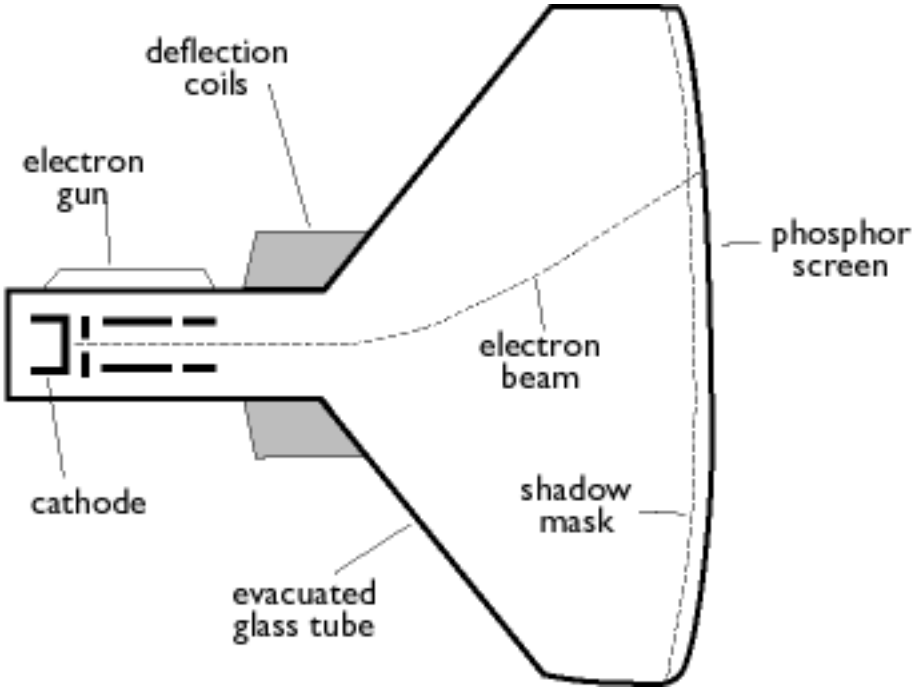
Points where convergence error is specified.

Convergence-error correction

A method of correcting for convergence error to insure that all three beams land simultaneously in the same triad. This is usually accomplished by means of special convergence-error correction coils in the deflection yoke.

CRT

Cathode-ray tube - the general term for all tubes in which one or more electron beams emitted by a cathode are periodically scanned across a phosphor screen by means of deflection circuitry. A special form of the cathode-ray tube is the TV and monitor picture tube.



RETURN TO TOP OF THE PAGE

D

DDC (Display Data Channel)

DDC is a communication channel for displays and computers. The DDC feature allows the monitor controller to be automatically configured to make optimal use of the display without manual user interaction. DDC is implemented as part of the new Plug & Play approach introduced into the PC market to increase user friendliness.

The three levels developed for Plug & play are: (1) DDC1, monitor send data to the PC; (2) DDC2B, PC can request information from monitor; and (3) DDC2Bi which is a two-way communication - monitor can be addressed and PC or graphics board can give commands to monitor.

DDC 1/2B

See DDC.

DDC 2Bi

See DDC.

Degaussing

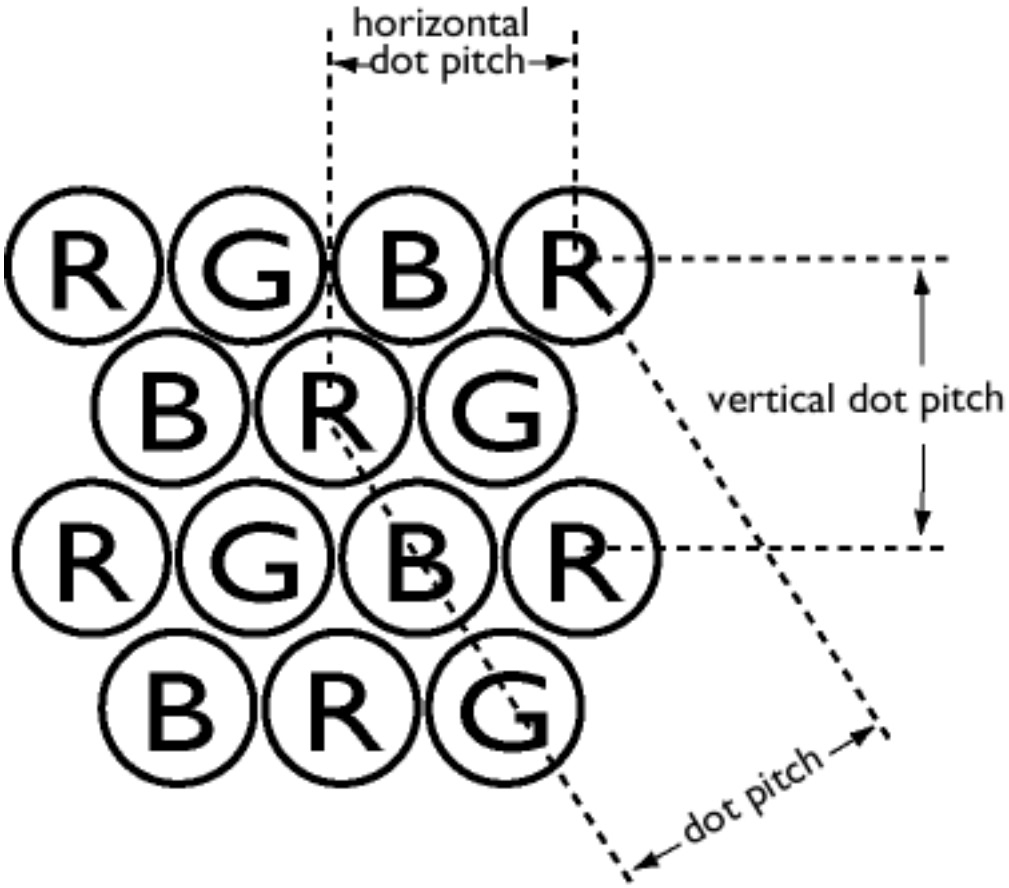
The procedure of demagnetizing the shadow mask and associated metal parts of a picture tube at switch-on to minimize picture distortion. This is usually accomplished by means of a special degaussing coil through which a decaying alternating current is passed to generate an alternating magnetic field that gradually decays to demagnetize the tube. Some monitors offer a manual degaussing facility that can be activated at any time.

Digital control

Microprocessor-based digital control of picture parameters and video modes for complete control of picture settings and modes and instant recall of all settings at the push of a button. This is a very advanced feature that allows the user to switch to any required mode at any instant without having to spend time readjusting the picture. It is currently available in most Philips monitors.

Dot pitch

The shortest distance between two phosphor dots of the same color on the screen. The smaller the dot pitch, the better the resolution of the monitor.



Dot rate

Frequency in MHz of the dot clock. It is a measure of the speed with which data is transferred between the video card and subsequent processing circuitry.

Also known as video dot rate.

RETURN TO TOP OF THE PAGE

E

Electromagnetic radiation standards

International standards set to limit electromagnetic emissions from monitors. There are currently

two important standards both derived from regulations originally laid down by Swedish authorities.

MPR-II

The standard originally proposed by the Swedish National Board of Measurement and Testing. It set maximum levels of electromagnetic radiation emitted by monitors, and has now been adopted as a world standard. MPR-II defines maximum permitted electrostatic, magnetic and electric field levels measured at a distance of 50 cm from the center of the monitor (see table).

TCO

In 1991, the Swedish Tjänstemannens Central Organization (TCO, Swedish confederation of Professional Employees) set a standard even more severe than MPR-II, especially for alternating electric fields (AEF). The TCO standard is more severe since not only are the permitted field levels reduced compared with MPR-II, but the measuring distance is also reduced (see table).

Electromagnetic radiation standards

EMI (Electrical Magnetic Interference)

The electrical and/or magnetic radiation coming from the working electrical or electronic equipment.

EMS (Electrical Magnetic Sustainment)

The ability of electrical or electronic equipment to function properly in the environment with electrical and/or magnetic interference.

RETURN TO TOP OF THE PAGE

F

Flicker

Very rapid variations in picture intensity caused by the finite time required for the electron beam to scan a picture onto the screen. Two kinds of flicker occur: line flicker caused by the electron beam scanning-in each line of the picture; and frame flicker (or field flicker if the picture is interlaced) caused by the frame repetition rate of 50 frames/second. Frame flicker is noticeable with GUI and DTP software (which have a light background), and can be very disturbing, especially for those who work regularly with displays - contributing to eye strain, headaches, visual blurring, stress, etc. The

problem can, however, be eliminated by increasing the refresh rate (number of frames/second) of the monitor to a value above around 70 Hz. Sensitivity to flicker appears to diminish with increasing age.

RETURN TO TOP OF THE PAGE

H

Hertz

The unit of frequency named after the physicist Heinrich Hertz (1857-1894). 1 hertz (Hz) is equal to 1 cycle/second.

Horizontal dot pitch

See Dot pitch.

Horizontal scanning frequency

Also called line frequency and expressed in kHz, it is the number of video lines written on the screen every second (from left to right). The higher the horizontal scanning frequency, the better the resolution (i.e., the higher the resolution and/or the higher the refresh rate).

RETURN TO TOP OF THE PAGE

I

INF File

INF file (Information File)

Information (INF) files store information in a specific format. The set-up functions retrieve information from the INF file to use when performing installation operations. Examples of the type of information stored in an INF file include INI and registry changes, file names, and locations of the source files on source media.

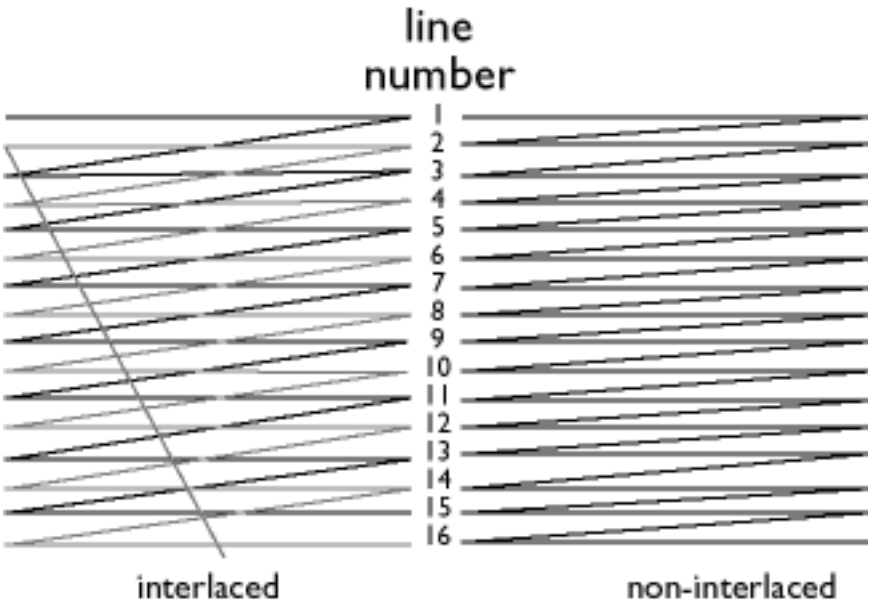
Interlaced/non-interlaced

Interlaced.

The method of writing a picture on the screen by initially writing all even lines and subsequently writing all odd lines of the picture. Result: The complete picture is composed of two interlaced half pictures (or fields). With interlacing, a vertical (or field) frequency of 50 Hz means a picture (or frame) frequency of 25 Hz.

Non-interlaced.

The method of writing a picture on the screen by successive video lines of the picture so that a full frame is written onto the screen in one vertical sweep of the beams. With a non-interlaced display, a vertical frequency of 50 Hz means a picture (or frame) frequency of 50 Hz. At any given resolution, non-interlaced modes are preferable to interlaced modes; however, generation of non-interlaced modes is more expensive.

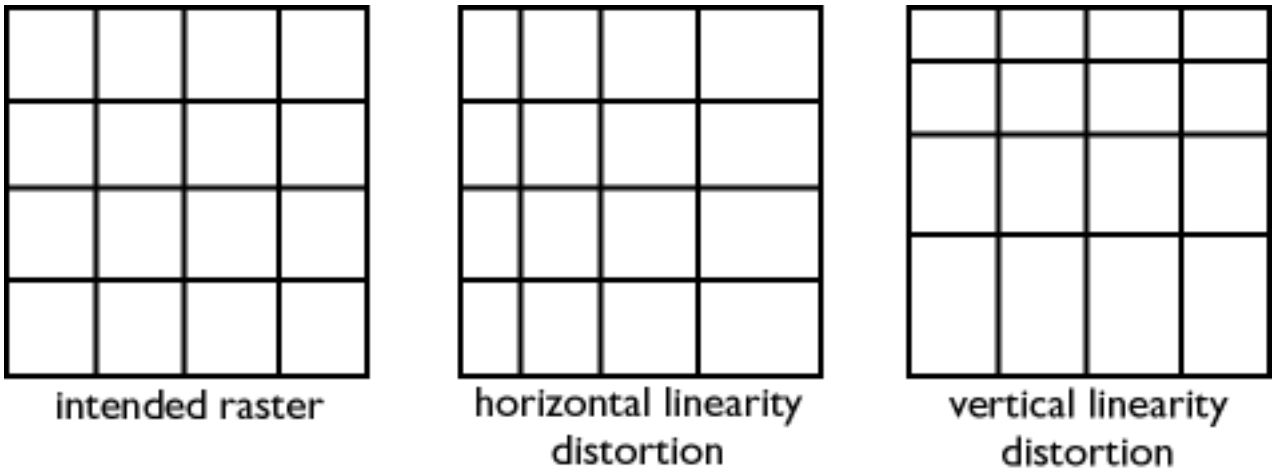


RETURN TO TOP OF THE PAGE

L

Linearity

The degree to measure the actual location of a pixel on the screen corresponds with its intended location. (see figure)



Line frequency

See Horizontal scanning frequency.

Low-emission monitor

A monitor that complies with international standards on radiation.

See Electromagnetic radiation standards.

Low-frequency electric and magnetic fields

Alternating fields generated by the deflection yoke. These are subject to increasing attention, notably by governing authorities, the trade and the press. Although there is no scientific evidence that monitor emissions are harmful, much effort has gone into reducing emissions on the principle of better safe than sorry. Currently, there are two areas of interest: very-low frequency (VLF) electric and magnetic fields extending from 2 kHz to 400 kHz, and extreme low frequency (ELF) fields extending from 5 Hz to 2 kHz.

See also *Electromagnetic radiation standards*.

RETURN TO TOP OF THE PAGE

M

Moiré effect

A fringe pattern arising from the interference between two superimposed line patterns.

In a monitor it comes from the interference between the shadow mask pattern and the video information (video moiré), and between the shadow mask pattern and the horizontal line pattern (scan moiré). It shows itself as wavy patterns on the screen and becomes more noticeable as monitor resolution increases. Since the video signal varies continuously, little can be done about video moiré. Scan moiré depends on the horizontal scanning frequency and can be alleviated by appropriate choice of frequency. Autoscan (MultiSync) monitors, which operate over a range of scanning frequencies, may sometimes exhibit moiré in certain video modes.

MPR

See Electromagnetic radiation standards.

MultiSync monitor

See Autoscan monitor.

RETURN TO TOP OF THE PAGE

N

Non-interlaced

See Interlaced/non-interlaced.

RETURN TO TOP OF THE PAGE

O

OSD (On Screen Display)

The feature that allows an end user to adjust screen performance and parameters of monitors directly through an on-screen instruction window. See CustoMax in CrystalClear section.

Overscan

The practice in which areas without useful video information are scanned outside the visible screen area in order to make maximum use of the screen for display of active video information. This practice is occasionally necessary because some video cards generate a video pattern that is smaller than the visible screen area, resulting in an image that is smaller (and less legible) than it needs to be.

RETURN TO TOP OF THE PAGE

P

Parallelogram Distortion

See Geometric distortion.

Phosphor

Generic name for the class of substances that exhibit luminescence. To produce a picture on screen, phosphors are deposited on the inner surface of the picture-tube screen and excited into luminescence by the electron beam. Typical examples of phosphors are P22 medium short-persistence phosphor and EBU high-color-saturation phosphor.

Pin-cushion Distortion

See Geometric distortion.

Pixel

Abbreviation for picture element, the smallest element of the picture that can be displayed on the screen. The smaller the pixel size, the better the resolution of the monitor. Pixel size is determined by the size of the electron spot on the screen and not necessarily by the phosphor dot pitch (the size of the triad). Thus, a monitor with a large electron spot covering several triads can exhibit poor resolution even though its dot pitch is small.

Pixel frequency

The number of pixels that can be written in a video line per second.

Pixel rate

See pixel frequency

Plug-and-Play

See DDC. See USB section.

RETURN TO TOP OF THE PAGE

R

Raster

The area on screen that electron beam can reach.

Refresh rate

See Vertical scanning frequency.

Resolution

The number of pixels that can be displayed on the screen. The resolution is specified as the number of pixels in a line multiplied by the number of horizontal lines.

See also video graphic adapter.

Rotation function

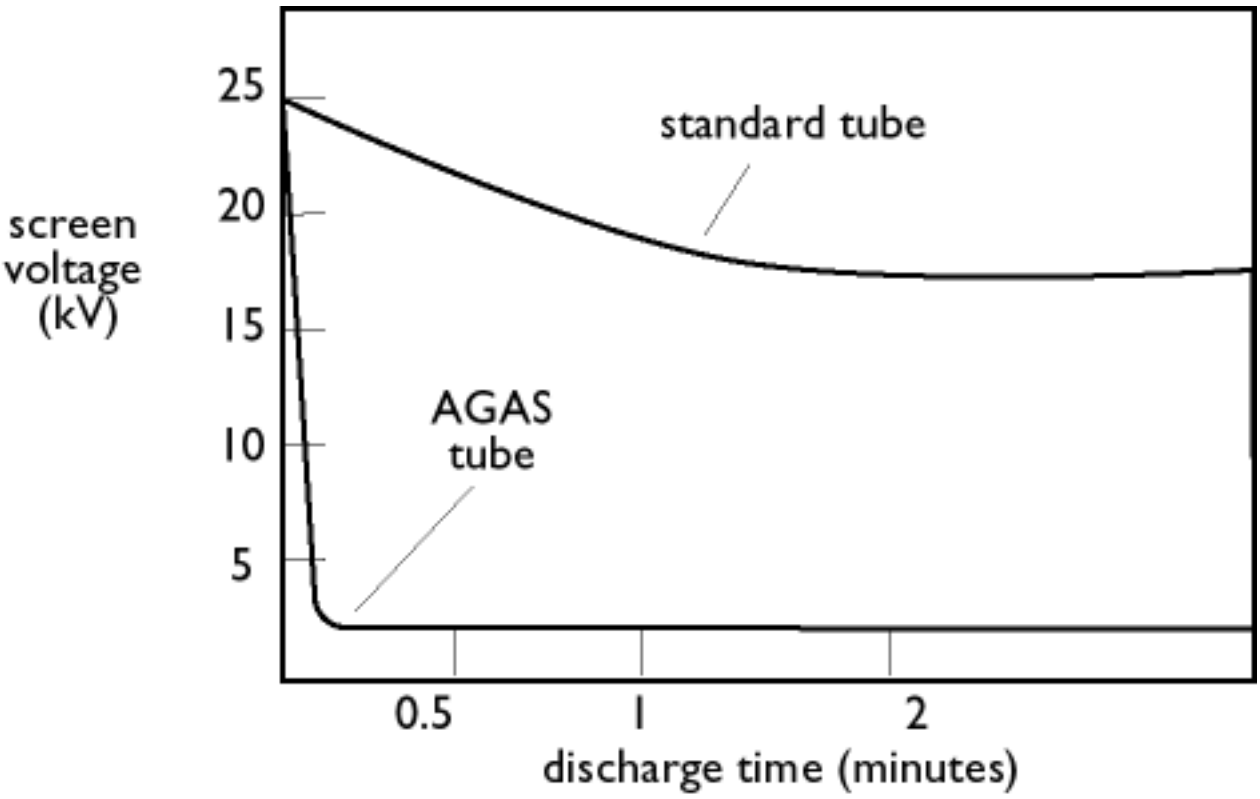
The feature that allows users to adjust the whole screen rotating to be horizontal.

Because of the magnetic field of earth, the screen of monitor will be tilt when the screen faces toward the different direction.

RETURN TO TOP OF THE PAGE

S

Screen coatings



Anti-Static coatings

Due to bombardment by beam electrons, monitor screens become electrically charged when in use. Electrically charged screen surfaces can attract dust particles. An Anti-Static coating is a conductive coating deposited on the screen (or on a glass panel immediately in front of the screen) that conducts away the charge and prevents screen dust build-up.

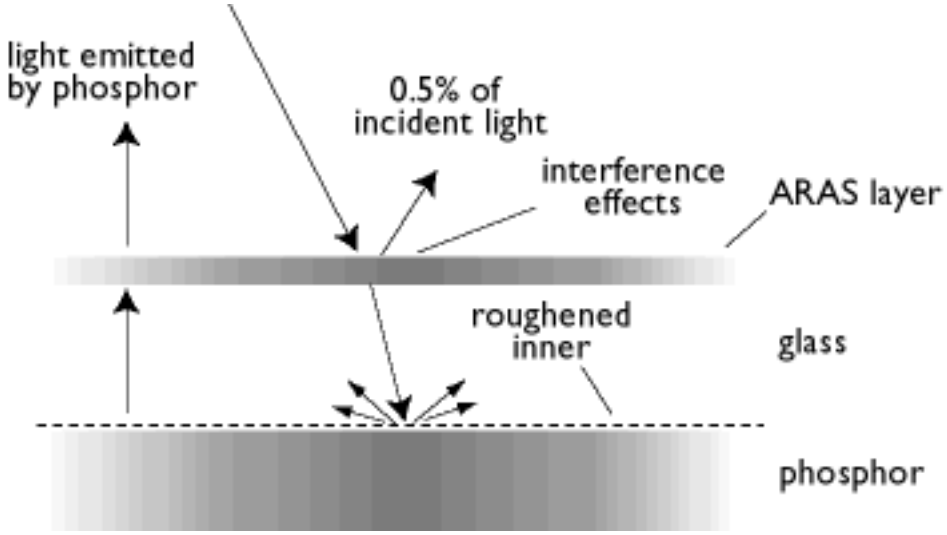
AGAS (Anti-Glare, Anti-Static) coating

AGAS is a silica coating applied to the surface of the screen by a spinning and spraying process. It operates by diffusing reflected light to blur images of light sources on the screen. To provide anti-static properties, the coating is impregnated with small conductive particles.

ARAS (Anti-Reflection, Anti-Static) coating

ARAS is one of the most effective anti-reflection/anti-static screen treatments currently available. It is composed of a multi-layer structure of transparent dielectric material that suppresses specular reflections by broadband interference effects at the screen surface. Anti-static properties are provided by a single conductive layer within the multi-layer structure.

With ARAS, the intensity of reflected light is reduced from around 4.5% of the incident light (the reflectivity of uncoated screens) to less than 0.5%. ARAS also has a major advantage over other screen treatments: It doesn't diffuse or scatter reflected light, so picture contrast and sharpness remain completely unimpaired. It's also easy to clean and tough enough to withstand commercially available cleaning agents.



The ARAS coating reflects only about 0.5% of the incident light.

AGARAS (Anti-Glare Anti-Reflection Anti-Static) coating.

A combined anti-reflection, anti-glare, anti-static coating.

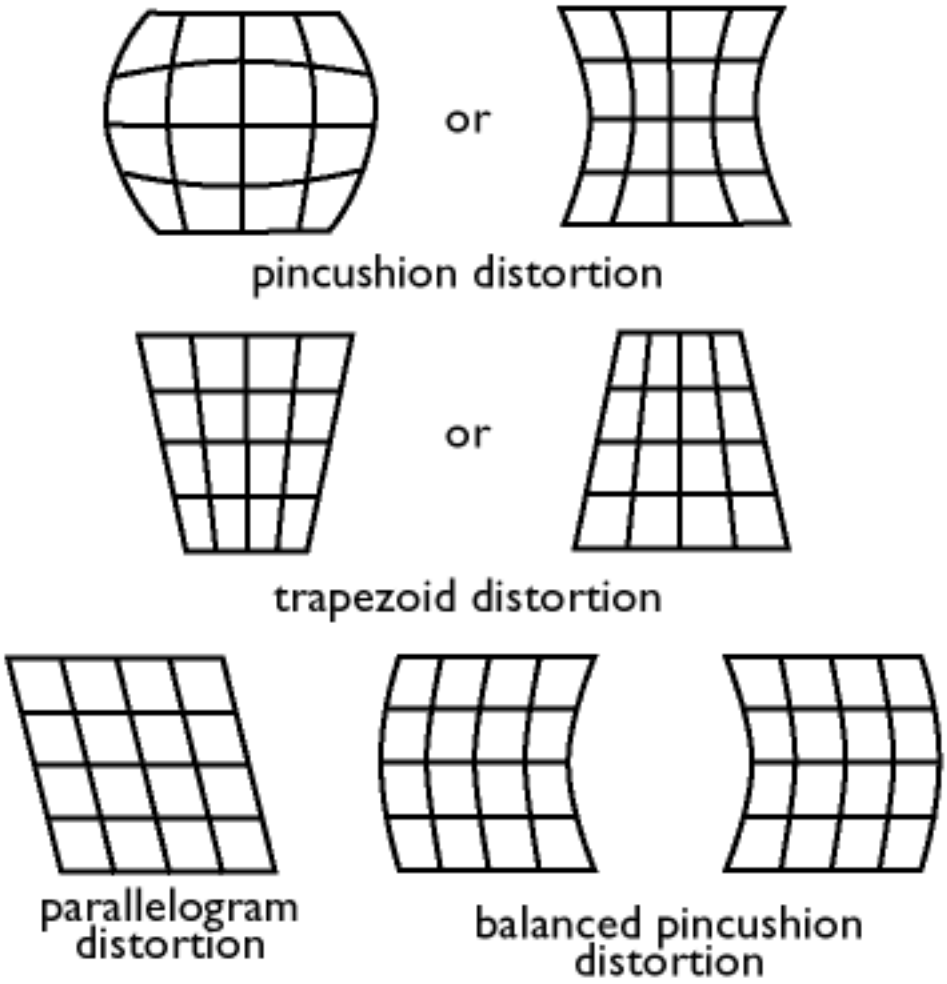
Self-test function

A monitor equipped with hardware or software to automatically detect cable connection status.

Shape

Deviation of a reproduced picture from its intended shape. The following types of distortion are most

common:



SOG (Synchronization On Green)

A properly functioning color monitor requires five kinds of signals: horizontal sync pulse, vertical sync pulse, red color signal, green color signal and blue color signal. Signals from a PC are transmitted to a monitor using one of three methods:

1. Separate sync: Horizontal and Vertical sync signals transmitted separately

2. Composite sync: Horizontal and vertical sync pulses mixed into a single signal train.

3. SOG: Horizontal and vertical sync pulses mixed, then combined with the green color signal.

RETURN TO TOP OF THE PAGE

T

TCO

See Electromagnetic radiation standards.

Tilt function

See rotation function.

Trapezoid distortion

See Geometrical distortion.

TTL signal

A TTL (Transistor-transistor-logic) signal is a digital signal level for controlling the screen colors. With TTL driving, the red, green and blue signals can only be switched on or off or provided with an intensity signal. A TTL-driven monitor can thus display a maximum of 64 colors. Video standards such as MDA, CGA and EGA are based on TTL level.

RETURN TO TOP OF THE PAGE

U

USB or Universal Serial Bus

A smart plug for PC peripherals. USB automatically determines resources (like driver software and bus bandwidth) required by peripherals. USB makes necessary resources available without user intervention.

- USB eliminates "case angst" -- the fear of removing the computer case to install add-on peripherals. And USB also eliminates adjustment of complicated IRQ settings when installing new peripherals.
- USB does away with "port gridlock." Without USB, PCs are normally limited to one printer, two Com port devices (usually a mouse and modem), one Enhanced Parallel Port add-on (scanner or video camera, for example) and a joystick. More and more peripherals for multimedia computers arrive on the market every day. With USB, up to 127 devices can run simultaneously on a computer.
- USB permits "hot plug-in." There's no need to shut down, plug in, reboot and run set-up to install peripherals. And no need to go through the reverse process to unplug a device.

In short, USB transforms today's "Plug-and-Pray" into true Plug-and-Play!

Hub

A Universal Serial Bus device that provides additional connections to the Universal Serial Bus.

Hubs are a key element in the plug-and-play architecture of USB. The Figure shows a typical hub. Hubs serve to simplify USB connectivity from the user's perspective and provide robustness at low cost and complexity.

Hubs are wiring concentrators and enable the multiple attachment characteristics of USB. Attachment points are referred to as ports. Each hub converts a single attachment point into multiple attachment points. The architecture supports concatenation of multiple hubs.

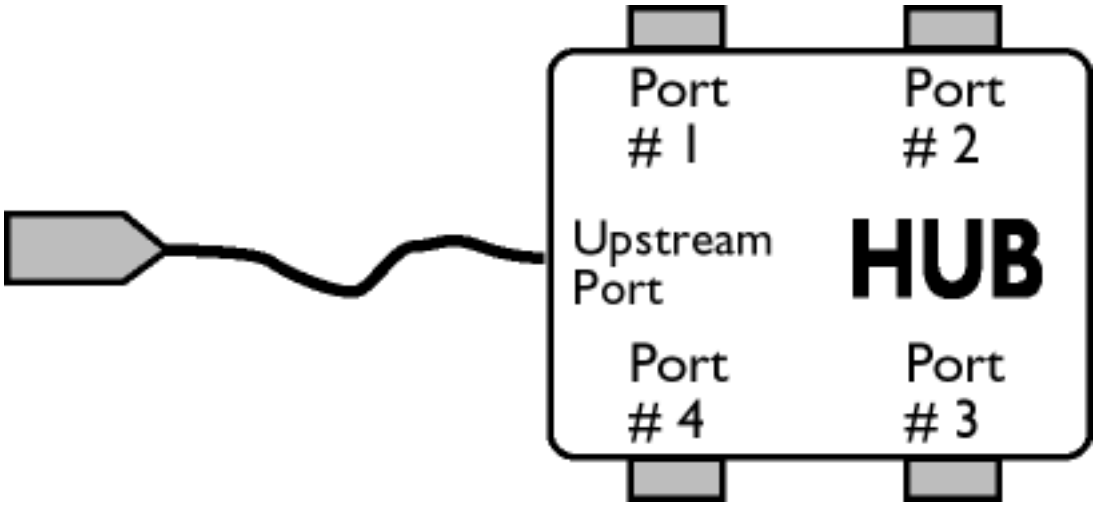
The upstream port of a hub connects the hub towards the host. Each of the other downstream ports of a hub allows connection to another hub or function. Hubs can detect, attach and detach at each downstream port and enable the distribution of power to downstream devices. Each downstream port can be individually enabled and configured at either full or low speed. The hub isolates low speed ports from full speed signaling.

A hub consists of two portions: the Hub Controller and Hub Repeater. The repeater is a protocol-controlled switch between the upstream port and downstream ports. It also has hardware support for reset and suspend/resume signaling. The controller provides the interface registers to allow communication to/from the host. Hub specific status and control commands permit the host to configure a hub and to monitor and control its ports.

Device

A logical or physical entity that performs a function. The actual entity described depends on the context of the reference. At the lowest level, device may refer to a single hardware component, as in a memory device. At a higher level, it may refer to a collection of hardware components that perform a particular function, such as a Universal Serial Bus interface device. At an even higher level, device may refer to the function performed by an entity attached to the Universal Serial Bus;

for example, a data/FAX modem device. Devices may be physical, electrical, addressable, and logical.



Downstream

The direction of data flow from the host or away from the host. A downstream port is the port on a hub electrically farthest from the host that generates downstream data traffic from the hub. Downstream ports receive upstream data traffic.

Upstream

The direction of data flow towards the host. An upstream port is the port on a device electrically closest to the host that generates upstream data traffic from the hub. Upstream ports receive downstream data traffic.

UPS (Universal Power Supply)

The monitor with UPS feature can work in different countries with various mains voltage.

RETURN TO TOP OF THE PAGE

V

Vertical dot pitch

See Dot pitch.

Vertical scanning frequency

Expressed in Hz, this is the number of fields written to the screen every second in interlaced mode. In non-interlaced mode vertical scanning frequency is the number of frames (complete pictures) written to the screen every second (also known as refresh rate).

Vertical sync pulses

A train of square shaped waveforms that define the start of a new frame.

VESA

Video Electronic Standards Association, a consortium of manufacturers formed to establish and maintain industry-wide standards for video cards and monitors. VESA was instrumental in the introduction of the Super VGA and Extended VGA video graphics standards (see Video graphics adapters) with a refresh rate of 70 Hz, minimizing flicker and helping to reduce operator eyes fatigue and stress.

Video dot rate

See Dot rate.

Video graphics adapters

A card equipped with a character or graphic generator and video memory, which maps to the screen. A microprocessor scans video memory and translates bit information from the computer into displayable video signals for the monitor. These cards comply with various standards that determine the nature and quality of the display.

VGA (Video Graphics Array), introduced in 1987, was the first analog card. It offered still higher resolution than EGA: 640 X 480 pixels for graphics and 720 x 400 pixels for text, and a color palette of 256 colors. VGA could also emulate EGA and CGA.

Super VGA, devised by VESA in 1989, offers a resolution of 800 x 600 pixels.

Extended VGA, introduced by VESA in 1991, offers a top resolution of 1024 x 768 pixels (non-interlaced) and a refresh rate slightly higher than IBM's XGA 8514A.

High-end, graphics adapters, introduced over the last three years for professional workstations, offer top resolutions from 1280 x 1024 to 1600 x 1280, horizontal line frequencies up to 90 kHz and bandwidths up to 200 MHz.

VIS (Viewable Image Size)

The real screen dimensions that users can see measured diagonally. The VIS of a monitor is always less than the so called screen size of a monitor. For example, the VIS of a 17-inch monitor is only about 16 inches. It depends on the useful screen size of CRT and the opening of a monitor's front cabinet.

RETURN TO TOP OF THE PAGE

Download and Print

This page provides an option to read the manual in .pdf format. PDF files can be downloaded into your hard disk, then viewed and printed with Acrobat Reader or through your browser.

If you do not have Adobe® Acrobat Reader installed, click on the link to install the application. Adobe® Acrobat Reader for PC / Adobe® Acrobat Reader for Mac.

Download instructions:

To download the file:

1. Click-and-hold your mouse over the icon below. (Win95/98/2000/Me/XP users right-click)

2. From the menu that appears, choose 'Save Link As...', 'Save Target As...' or 'Download Link to Disk'.

3. Choose where you would like to save the image; click 'Save' (if prompted to save as either 'text' or 'source', choose 'source').

Printing instructions:

To print the manual:

1. With the manual file open, follow your printer's instructions and print the pages you need.

107B.pdf English language manual

107C.pdf

107E.pdf

107G.pdf

107H.pdf

107S.pdf

107T.pdf

107Q.pdf

Troubleshooting

Safety Precautions and Maintenance • Troubleshooting • Regulatory Information • Other Related Information

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Common Problems

Having trouble? Something not working? Before calling for help, try these suggestions.

Having this problem?	Check these items
No Picture (Power LED not lit)	• Make sure the Power cable is plugged into the power outlet and back of the monitor. • Power button on the front of your monitor should be in the ON position. • Disconnect the monitor from the power outlet for about one minute.
No Picture (Power LED is flashing green)	• Make sure the computer is turned on. • Make sure the monitor cable is properly connected to your computer. • Check to see if the monitor cable has bent pins. • The Energy Saving feature may be activated
No Picture (Power LED is green)	• Make sure the Brightness and Contrast controls are set correctly. • Make sure the monitor cable is properly connected to your computer. • Check to see if the monitor cable has bent pins. • Make sure the computer Power button is on.
Screen doesn't show when you turn on the monitor	• Make sure the monitor cable is properly connected to your computer. (Also refer to the Quick Start Guide). • Check to see if the monitor cable has bent pins. • Make sure the computer is turned on.

No color or intermittent color	• If you are using a non-VESA-DDC standard video card, turn the DDC1 / 2B feature Off.
Color appears blotchy	• The picture may need degaussing. • Remove any nearby magnetic objects. • Face the monitor toward the East for the best picture quality.
Missing one or more colors	• Check the Color Temperature. • Make sure the monitor cable is properly connected to your computer. • Check to see if the monitor cable has bent pins.
Dim Picture	• Adjust the Brightness and Contrast controls. • Check your video card and it's owner's manual instructions for it may be a non-VESA-DDC Standard card.
Picture is too large or too small.	• Adjust the Horizontal and/or Vertical Size. • Adjust the Zoom.
Edges of the picture are not square.	• Adjust the geometry.
Picture has a double image.	• Eliminate the use of a video extension cable and/or video switch box. • Face the monitor toward the East for the best picture quality.
Picture is not sharp.	• Check to make sure Moiré is switched off. • Adjust Sync Input.
Unstable Picture	• Increase your refresh rate.
Problem with On Screen Display	• Refer to the instructions and troubleshooting information in that chapter.

For further assistance, refer to the Consumer Information Centers list to contact your local Philips distributor.

RETURN TO TOP OF THE PAGE

Regulatory Information

TCO'03 Information • Recycling Information for Customers • Waste Electrical and Electronic Equipment-WEEE • CE Declaration of Conformity • Commission Federale de la Communication (FCC Declaration) • EN 55022 Compliance (Czech Republic Only) • VCCI Class 2 Notice (Japan Only) • MIC Notice (South Korea Only) • Polish Center for Testing and Certification Notice • North Europe Information (Nordic Countries) • BSMI Notice (Taiwan Only) • Ergonomie Hinweis (nur Deutschland) • Philips End-of-Life Disposal • Information for UK only

Safety Precautions and Maintenance • Troubleshooting • Other Related Information

---

TCO' 03 Information (For TCO Model Only)

Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements.

Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time-beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified

environmental management system such as EMAS or ISO 14 000

- Restrictions on
  - chlorinated and brominated flame retardants and polymers
  - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in co-operation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit
www.tcodevelopment.com

RETURN TO TOP OF THE PAGE

Recycling Information for Customers

Philips establishes technically and economically viable objectives to optimize the environmental performance of the organization's product, service and activities.

From the planning, design and production stages, Philips emphasizes the important of making products that can easily be recycled. At Philips, end-of-life management primarily entails participation in national take-back initiatives and recycling programs whenever possible, preferably in cooperation with competitors.

There is currently a system of recycling up and running in the European countries, such as The Netherlands, Belgium, Norway, Sweden and Denmark.

In U.S.A., Philips Consumer Electronics North America has contributed funds for the Electronic Industries Alliance (EIA) Electronics Recycling Project and state recycling initiatives for end-of-life electronics products from household sources. In addition, the Northeast Recycling Council (NERC) - a multi-state non-profit organization focused on promoting recycling market development - plans to implement a recycling program.

In Asia Pacific, Taiwan, the products can be taken back by Environment Protection Administration (EPA) to follow the IT product recycling management process, detail can be found in web site www.epa.gov.tw

For help and service, please contact Consumers Information Center or F1rst Choice Contact Information Center in each country or the following team of Environmental specialist can help.

Mr. Job Chiu - Environment manager
Philips Electronics Industries (Taiwan) Ltd, Monitor Business Unit
E-mail: job.chiu@philips.com
Tel: +886 (0) 3 454 9839

Mr. Maarten ten Houten - Senior Environmental Consultant
Philips Consumer Electronics
E-mail: marten.ten.houten@philips.com
Tel: +31 (0) 40 27 33402

Ms. Delmer F. Teglas

Philips Electronics North America
E-mail: butch.teglas@philips.com
Tel: +1 865 521 4322

RETURN TO TOP OF THE PAGE

Waste Electrical and Electronic Equipment-WEEE

Attention users in European Union private households

This marking on the product or on its packaging illustrates that, under European Directive 2002/96/EG governing used electrical and electronic appliances, this product may not be disposed of with normal household waste. You are responsible for disposal of this equipment through a designated waste electrical and electronic equipment collection. To determine the locations for dropping off such waste electrical and electronic, contact your local government office, the waste disposal organization that serves your household or the store at which you purchased the product.

RETURN TO TOP OF THE PAGE

CE Declaration of Conformity

- Philips Consumer Electronics declare under our responsibility that the product is in conformity with the following standards
  - EN60950-1:2001 (Safety requirement of Information Technology Equipment)
  - EN55022:1998 (Radio Disturbance requirement of Information Technology Equipment)
  - EN55024:1998 (Immunity requirement of Information Technology Equipment)
  - EN61000-3-2:2000 (Limits for Harmonic Current Emission)
  - EN61000-3-3:1995 (Limitation of Voltage Fluctuation and Flicker)

  following provisions of directives applicable
  - 73/23/EEC (Low Voltage Directive)
  - 89/336/EEC (EMC Directive)
  - 93/68/EEC (Amendment of EMC and Low Voltage Directive)

  and is produced by a manufacturing organization on ISO9000 level.
- The product also comply with the following standards
  - ISO9241-3, ISO9241-7, ISO9241-8 (Ergonomic requirement for Visual Display)
  - ISO13406-2 (Ergonomic requirement for Flat panels)
  - GS EK1-2000 (GS specification)
  - prEN50279:1998 (Low Frequency Electric and Magnetic fields for Visual Display)
  - MPR-II (MPR:1990:8/1990:10 Low Frequency Electric and Magnetic fields)
  - TCO'03 (Requirement for Environment Labelling of Ergonomics, Energy, Ecology and Emission,

  TCO: Swedish Confederation of Professional Employees) for TCO versions

RETURN TO TOP OF THE PAGE

Commission Federale de la Communication (FCC Declaration)

Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B,aux termes de l'article 15 Des règles de la FCC. Ces limites sont conçues de façon à fourir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle. CET appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio. Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.

Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

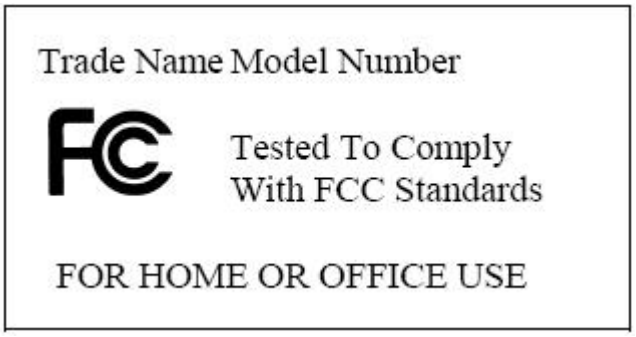
N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

FCC Declaration of Conformity

Model Number:	107S/E/T/B
Trade Name:	Philips
Responsible Party:	Philips Consumer Electronics North America P.O. Box 671539 Marietta, GA 30006-0026 1-888-PHILIPS (744-5477)

Declaration of Conformity for Products Marked with FCC Logo, United States Only



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RETURN TO TOP OF THE PAGE

EN 55022 Compliance (Czech Republic Only)

This device belongs to category B devices as described in EN 55022, unless it is specifically stated that it is a Class A device on the specification label. The following applies to devices in Class A of EN 55022 (radius of protection up to 30 meters). The user of the device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

Pokud není na typovém štítku počítače uvedeno, že spadá do do třídy A podle EN 55022, spadá automaticky do třídy B podle EN 55022. Pro zařízení zařazená do třídy A (chranné pásmo 30m) podle EN 55022 platí následující. Dojde-li k rušení telekomunikačních nebo jiných zařízení je uživatel povinnen provést taková opatřgní, aby rušení odstranil.

RETURN TO TOP OF THE PAGE

VCCI Notice (Japan Only)

This is a Class B product based on the standard of the Voluntary Control Council for Interference (VCCI) for Information technology equipment. If this equipment is used near a radio or television receiver in a domestic environment, it may cause radio Interference. Install and use the equipment according to the instruction manual.

Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会 (VCCI) の基準に基づくクラス B 情報技術装置です。この装置は家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

RETURN TO TOP OF THE PAGE

MIC Notice (South Korea Only)

Class B Device

장치 종류	사용자 안내문
B급 기기	이 장치는 가정용으로 전자파 적합등록을 한 장치로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Please note that this device has been approved for non-business purposes and may be used in any environment, including residential areas.

RETURN TO TOP OF THE PAGE

Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, monitor, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-89/E-06251.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

RETURN TO TOP OF THE PAGE

North Europe Information (Nordic Countries)

Placering/Ventilation

VARNING:

FÖRSÄKRA DIG OM ATT HUVUDBRYTARE OCH UTTAG ÄR LÄTÅTKOMLIGA, NÄR DU STÄLLER DIN UTRUSTNING PÅPLATS.

Placering/Ventilation

ADVARSEL:

SØRG VED PLACERINGEN FOR, AT NETLEDNINGENS STIK OG STIKKONTAKT ER NEMT TILGÆNGELIGE.

Paikka/Ilmankierto

VAROITUS:

SIJOITA LAITE SITEN, ETTÄ VERKKOJOHTO VOIDAAN TARVITTAESSA HELPOSTI IRROTTAA PISTORASIASTA.

Plassering/Ventilasjon

ADVARSEL:

NÅR DETTE UTSTYRET PLASSERES, MÅ DU PASSE PÅ AT KONTAKTENE FOR STØMTILFØRSEL ER LETTE Å NÅ.

RETURN TO TOP OF THE PAGE

BSMI Notice (Taiwan Only)

符合乙類資訊產品之標準

RETURN TO TOP OF THE PAGE

Ergonomie Hinweis (nur Deutschland)

Der von uns gelieferte Farbmonitor entspricht den in der "Verordnung über den Schutz vor Schäden durch Röntgenstrahlen" festgelegten Vorschriften.

Auf der Rückwand des Gerätes befindet sich ein Aufkleber, der auf die Unbedenklichkeit der Inbetriebnahme hinweist, da die Vorschriften über die Bauart von Störstrahlern nach Anlage III ¤ 5 Abs. 4 der Röntgenverordnung erfüllt sind.

Damit Ihr Monitor immer den in der Zulassung geforderten Werten entspricht, ist darauf zu achten, daß

1. Reparaturen nur durch Fachpersonal durchgeführt werden.
2. nur original-Ersatzteile verwendet werden.
3. bei Ersatz der Bildröhre nur eine bauartgleiche eingebaut wird.

Aus ergonomischen Gründen wird empfohlen, die Grundfarben Blau und Rot nicht auf dunklem Untergrund zu verwenden (schlechte Lesbarkeit und erhöhte Augenbelastung bei zu geringem Zeichenkontrast wären die Folge).

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 beträgt 70dB (A) oder weniger.

ACHTUNG: BEIM AUFSTELLEN DIESES GERÄTES DARAUF ACHTEN, DAß NETZSTECKER UND NETZKABELANSCHLUß LEICHT ZUGÄNGLICH SIND.

RETURN TO TOP OF THE PAGE

End-of-Life Disposal

Your new monitor contains materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount to be disposed of.

Please find out about the local regulations on how to dispose of your old monitor from your local Philips dealer.

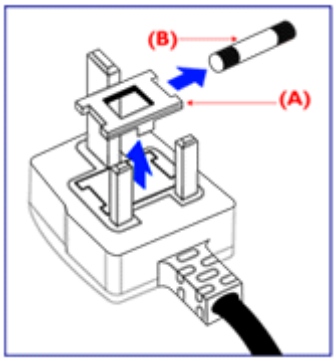
RETURN TO TOP OF THE PAGE

Information for UK only

WARNING - THIS APPLIANCE MUST BE EARTHED.

Important:

This apparatus is supplied with an approved moulded 13A plug. To change a fuse in this type of plug proceed as follows:



1. Remove fuse cover and fuse.

2. Fit new fuse which should be a BS 1362 5A,A.S.T.A. or BSI approved type.

3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate 3-pin plug fitted in its place.

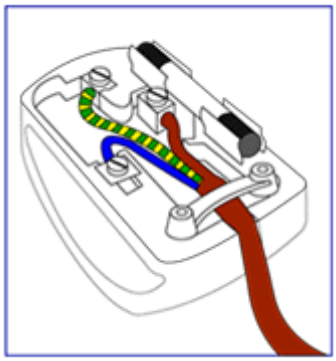
If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured in accordance with the following code:

BLUE - "NEUTRAL" ("N")



BROWN - "LIVE" ("L")

GREEN & YELLOW - "EARTH" ("E")

1. The GREEN AND YELLOW wire must be connected to the terminal in the plug which is marked with the letter "E" or by the Earth symbol ⏚ or coloured GREEN or GREEN AND YELLOW.

2. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.

3. The BROWN wire must be connected to the terminal which marked with the letter "L" or coloured RED.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.

RETURN TO TOP OF THE PAGE

Other Related Information

Safety Precautions and Maintenance • Troubleshooting • Regulatory Information • Information for Users in the U. S. • Information for Users Outside the U.S

Information for Users in the U. S.

For units set at 115 V :

Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet long and a parallel blade, grounding type attachment plug rated 15 A, 125 V.

For units set at 230 V:

Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet long and a tandem blade, grounding type attachment plug rated 15 A, 250 V.

Information for Users outside the U.S.

For units set at 230 V:

Use a Cord Set consisting of a minimum 18 AWG cord and grounding type attachment plug rated 15 A, 250 V. The Cord Set should have the appropriate safety approvals for the country in which the equipment will be installed and / or be marked HAR.

RETURN TO TOP OF THE PAGE

Your International Guarantee

Dear Customer,

Thank you for purchasing this Philips product which has been designed and manufactured to the highest quality standards.

If, unfortunately, something should go wrong with this product Philips guarantees free of charge labor and replacement parts irrespective of the country where it is repaired during a period of 12 months from date of purchase. This international Philips guarantee complements the existing national guarantee obligations to you of dealers and Philips in the country of purchase and does not affect your statutory rights as a customer.

The Philips guarantee applies provided the product is handled properly for its intended use, in accordance with its operating instructions and upon presentation of the original invoice or cash receipt, indicating the date of purchase, dealer's name and model and production number of the product.

The Philips guarantee may not apply if:

- the documents have been altered in any way or made illegible;
- the model or production number on the product has been altered, deleted, removed or made illegible;
- repairs or product modifications and alterations have been executed by unauthorized service organizations or persons;
- damage is caused by accidents including but not limited to lightning, water or fire, misuse or neglect.

Please note that the product is not defective under this guarantee in the case where modifications become necessary in order for the product to comply with local or national technical standards which apply in countries for which the product was not originally designed and/or manufactured. Therefore always check whether a product can be used in a specific country.

In case your Philips product is not working correctly or is defective, please contact your Philips dealer. In the event you require service whilst in another country a dealer address can be given to you by the Philips Consumer Help Desk in that country, the telephone and fax number of which can be found in the relevant part of this booklet.

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully before contacting your dealer. If you have questions which your dealer cannot answer or any related question please contact the Philips Consumer Information Centers or via:

Website: *http://www.philips.com*

Philips F1rst Choice Warranty (USA / Canada)

Thank you for purchasing this Philips monitor.

All Philips monitors are designed and manufactured to high standards and deliver high-quality performance, ease of use and ease of installation. Should you encounter any difficulties while installing or using this product, please contact Philips directly to benefit from your Philips F1rst Choice Warranty. This three-year service warranty entitles you to a swap model on-site within 48 hours of your call being received within the first year of purchase. If you have any problems with your monitor within the second or third year of purchase, we will repair it after it has been sent to the service provider at your expense and returned to you within five working days, free of charge.

LIMITED WARRANTY (Computer Monitor)

Click here to access the Warranty Registration Card

Three Years Free Labor / Three Years Free Service on Parts / One Year Exchange*

**Product will be exchanged with a new or renewed to original specifications unit within two business days for the first year. This product must be shipped in at your expense for service during years two and three.*

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For three years thereafter,* all parts will be repaired or replaced, and labor is free. *After three years from the day of purchase,* you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period.

When the warranty on the original product expires, the warranty on all replaced and repaired products and parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.
- the model or production number on the product has been altered, deleted, removed or made illegible.

Where IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

Where CAN I GET MORE INFORMATION?

For more information, contact the Philips Customer Care Center by calling (877) 835-1838 (U.S.A. customers only) or (919) 573-7855.

Before Requesting Service...

Please check your owner's manual before requesting service. Adjustments of the controls

discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact the Philips Customer Care Center phone number listed below for product assistance and procedures for servicing:

Philips Customer Care Center

(877) 835-1838 or (919) 573-7855

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

(800) 479-6696

Three years free parts and three years free labor will be provided at Philips Canada depot or any one of its authorized service centers.

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER... Please record the model and serial numbers found on the product below.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Before contacting Philips, please prepare the following details so we can solve your problem quickly.

- Philips type number
- Philips serial number
- Purchase date (copy of purchase may be required)
- PC environment Processor:
  - 286/386/486/Pentium Pro/Internal memory
  - Operating system (Windows, DOS, OS/2, MAC)
  - Fax/Modem/Internet program?
- Other cards installed
  Having the following information available will also help speed up the process:
- Your proof of purchase indicating: date of purchase, dealer name, model and product serial number.
- The full address to which the faulty monitor has to be collected and the swap model should be delivered.

Just a phone call away

Philips' customer help desks are located worldwide. Within the U.S. you can contact Philips customer care Monday-Friday from 8:00 AM-9:00 PM Eastern Time (ET) and on Saturdays from 10:00 AM-5:00 PM ET hrs by using one of the contact phone numbers.

For more information on this and more great Philips products visit our website at:

Website: *http://www.philips.com*

Consumer Information Centers

Antilles • Argentina • Australia • Bangladesh • Belarus • Brasil • Bulgaria • Canada • Chile • China • Colombia • Croatia • Czech Republic • Dubai • Estonia • Hong Kong • Hungary • India• Indonesia • Korea • Latvia • Lithuania • Malaysia • Mexico • Morocco • New Zealand • Pakistan • Paraguay • Peru • Philippines • Poland • Russia • Romania • Serbia&Montenegro • Singapore • Slovakia • Slovenia • South Africa • Taiwan • Thailand • Turkey • Uruguay • Ukraine • Venezuela

Eastern Europe

BELARUS

Technical Centre of JV IBA
M. Bogdanovich str. 155
BY - 220040 Minsk
Tel: +375 17 217 33 86

BULGARIA

LAN Service
140, Mimi Balkanska Str.
Office center Translog
1540 Sofia, Bulgaria
tel: +359 2 960 2360
www.lan-service.bg

CZECH REPUBLIC

Xpectrum
Lužná 591/4
CZ - 160 00 Praha 6
Tel: 800 100 697
Email:info@xpectrum.cz
www.xpectrum.cz

CROATIA

Renoprom d.o.o.
Mlinska 5, Strmec
HR - 41430 Samobor
+385 1 333 0974

ESTONIA

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Akadeemia tee 21G
EE-12618 Tallinn
Tel: +372 6519900
www.ee.invia.fujitsu.com

HUNGARY

Serware Szerviz
Vizimolnár u. 2-4
HU - 1031 Budapest
Tel: +36 1 2426331
Email: inbox@serware.hu
www.serware.hu

LATVIA

ServiceNet LV
Jelgavas iela 36
LV-1055 Riga,
Tel: +371 7460399
Email: serviss@servicenet.lv

LITHUANIA

ServiceNet LT
Gaiziunu G. 3
LT – 3009 KAUNAS
Tel: +370 7400088
Email: servisas@servicenet.lt
www.servicenet.lt

ROMANIA

Blue Ridge Int'l Computers SRL
115, Mihai Eminescu St., Sector 2
RO - 020074 Bucharest
Tel.:+40 21 2101969

SERBIA&MONTENEGRO

Tehnicom Service d.o.o.
Bulevar Vojvode Misica 37B
YU – 11000 Belgrade
Tel: +381 11 3060 886

SLOVAKIA

Datalan Servisne Stredisko
Puchovska 8
SK - 831 06 Bratislava
Tel: +421 2 49207155
Email: servis@datalan.sk

SLOVENIA

PC HAND
Brezovce 10
SI - 1236 Trzin
Tel: +386 1 530 08 24
Email: servis@pchand.si

POLAND

Zolter
ul.Zytnia 1
PL - 05-500 Piaseczno
Tel:+48 22 7501766
Email: servmonitor@zolter.com.pl
www.zolter.com.pl

RUSSIA

Tel: +7 095 961-1111
Tel: 8-800-200-0880
Web-site: www.philips.ru

TURKEY

Türk Philips Ticaret A.S.
Yukari Dudullu Org.San.Bolgesi
2.Cadde No:22
34776-Umraniye/Istanbul
Tel: (0800)-261 33 02

UKRAINE

Comel
Shevchenko street 32
UA - 49030 Dnepropetrovsk
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www.csp-comel.com

Latin America

ANTILLES

Philips Antillana N.V.Kaminda A.J.E. Kusters 4
Zeelandia, P.O. box 3523-3051
Willemstad, Curacao
Phone: (09)-4612799
Fax : (09)-4612772

ARGENTINA

Vedia 3892 Capital Federal
CP:1430 Buenos Aires
Phone/Fax: (011)-4544 2047

BRASIL

Philips da Amazonia Ind. Elet.Ltda.
Rua Verbo Divino, 1400 -Sao Paulo-SP CEP-04719-002
Phone: 11 2121 0203 - São Paulo & 0800-701-0203 - Other Regions without São Paulo City.

CHILE

Philips Chilena S.A.
Avenida Santa Maria 0760
P.O. box 2687Santiago de Chile
Phone: (02)-730 2000
Fax : (02)-777 6730

COLOMBIA

Industrias Philips de Colombia
S.A.-Division de Servicio
CARRERA 15 Nr. 104-33
Bogota, Colombia
Phone: (01)-8000-111001 (toll free)
Fax : (01)-619-4300/619-4104

MEXICO

Consumer Information Centre
Norte 45 No.669
Col. Industrial Vallejo
C.P.02300, -Mexico, D.F.
Phone: (05)-3687788 / 9180050462
Fax : (05)-7284272

PARAGUAY

Av. Rca. Argentina 1780c/ Alfredo Seiferheld
P.O. BOX 605
Phone: (595 21)-664 333
Fax : (595 21)-664 336
Customer Desk:
Phone: 009 800 54 1 0004

PERU

Philips Peruana S.A.
Customer Desk
Comandante Espinar 719
Casilla 1841
Limab18
Phone: (01)-2136200
Fax : (01)-2136276

URUGUAY

Rambla O'Higgins 5303 Montevideo
Uruguay
Phone: (598)-619 66 66
Fax : (598)-619 77 77
Customer Desk:
Phone: 0004054176

VENEZUELA

Industrias Venezolanas Philips S.A.
Apartado Postal 1167
Caracas 1010-A
Phone: (02) 2377575
Fax : (02) 2376420

Canada

CANADA

Philips Electronics Ltd.
281 Hillmount Road Markham Ontario,
L6C 2S3
Phone: 800- 479-6696
Fax:905-887-3974

Pacific

AUSTRALIA

Philips Consumer Electronics
Customer Care Centre.
Level 1, 65 Epping Rd
North Ryde NSW 2113
Phone: 1300 363 391
Fax:+61 2 9947 0063

NEW ZEALAND

Philips New Zealand Ltd.
Consumer Help Desk
2 Wagener Place, Mt.Albert
P.O. box 1041
Auckland
Phone: 0800 477 999 (Toll Free)
Fax:0800 288 588

Asia

BANGLADESH

Philips Service Centre
100 Kazi Nazrul Islam
Avenue Kawran Bazar C/A
Dhaka-1215
Phone: (02)-812909
Fax : (02)-813062

CHINA

SHANHAI
Rm 1007, Hongyun Building, No. 501 Wuning road,
200063 Shanghai
P.R. China
Phone: 4008 800 008
Fax:21-52710058

HONG KONG

Philips Electronics Hong Kong Limited
Consumer Service
Unit A, 10/F. Park Sun Building
103-107 Wo Yi Hop Road
Kwai Chung, N.T.
Hong Kong
Phone: (852) 2619-9663
Fax: (852) 2481 5847

INDIA

Phone: (020)-712 2048 ext 2765
Fax:(020)-712 1558

BOMBAY
Philips India
Customer Relation Centre
Bandbox House
254-D Dr. A Besant Road, Worli
Bombay 400 025

CALCUTTA
Customer Relation Centre
7 justice Chandra Madhab Road
Calcutta 700 020

MADRAS
Customer Relation Centre
3, Haddows Road
Madras 600 006

NEW DELHI
Customer Relation Centre
68, Shivaji Marg
New Dehli 110 015

INDONESIA

Philips Group of Companies in Indonesia
Consumer Information Centre
Jl.Buncit Raya Kav. 99-100
12510 Jakarta
Phone: (021)-7940040 Ext 2100
Fax : (021)-7947511 / 7947539

KOREA

Philips Korea Ltd.
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PHILIPS Warranty Card 8/16/02 12:38 PM Page 1

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Congratulations on investing in a Philips product. It's an important and intelligent decision that's sure to reward you for many years to come. To ensure you'll get all of the privileges and protection that come with your purchase, please complete your Warranty Registration Card within the next ten days.

SIMPLY MAIL THE CARD BELOW TO RECEIVE ALL OF THESE BENEFITS TO WHICH YOU'RE ENTITLED.

WARRANTY VERIFICATION

Your prompt registration verifies your right to protection under the terms and conditions of your warranty.

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Your completed Warranty Registration Card serves as confirmation of ownership in the event of product loss or theft.

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MODEL NUMBER | SERIAL NUMBER

Registering your product is an essential step to ensure that you receive all of the benefits you are entitled to as a Philips customer. So complete the information below in ink, and drop this card in the nearest mailbox.

IMPORTANT - RETURN WITHIN TEN DAYS

Date of Purchase: Month / Day / Year

Your Name: First / Initial / Last

Address: Street / Apt. #

City / State / ZIP Code

Retail Price Paid $ .00

(Excluding sales tax, maintenance agreement, delivery, installation, and trade-in allowance.)

Your Phone Number (optional): Area Code / Phone Number

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Mail This Card Today To Get The Most From Your Purchase!

❑ No, I do not want to receive personalized offers about Philips products or other information from Philips in the future.

3135 015 07803 rev. 7/02

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PHILIPS
Warranty Registration Card

RETURN THE ATTACHED CARD WITHIN TEN DAYS TO ENSURE YOUR:

- ✓ Warranty Verification
- ✓ Owner Confirmation
- ✓ Model Registration

See Inside For Valuable Benefits!

The OSD Controls

Description of the On-Screen Display • The OSD Tree

The OSD Controls : Brightness (HotKey) • Contrast (HotKey) • Language • Zoom • Adjust Horizontal • Adjust Vertical • Adjust Shape • Adjust Color • Reset to Factory Settings • Extra Controls • Close Main Controls

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BRIGHTNESS

To adjust your screen's brightness, follow the steps below. Brightness is the overall intensity of the light coming from the screen. A 50% brightness is recommended.

1) Press the ☼(+) button on the monitor. The BRIGHTNESS window appears.

2) Press the ◑(-) or ☼(+) button to adjust the brightness.

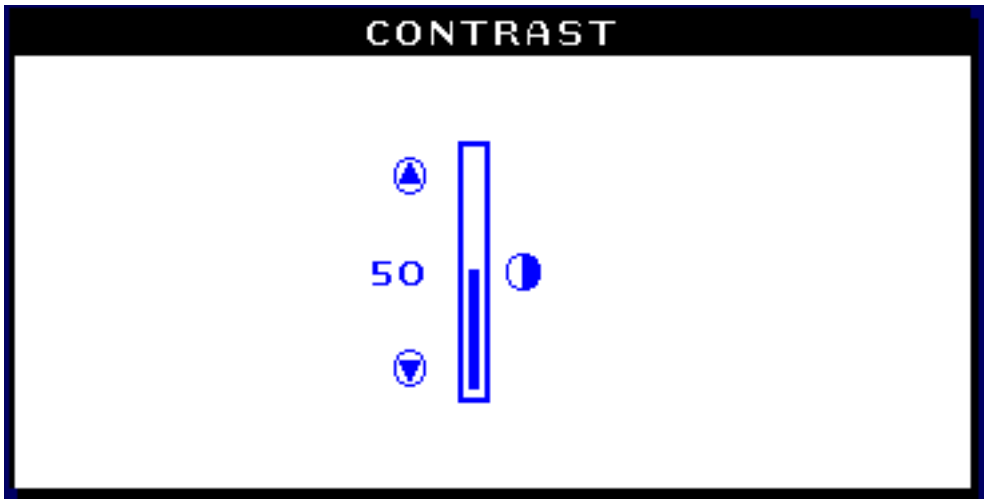
3) When the brightness is adjusted to the level desired, press MENU to confirm and the BRIGHTNESS window will disappear with the new adjustment saved.

RETURN TO TOP OF THE PAGE

CONTRAST

To adjust your screen's contrast, follow the steps bellow. Contrast is the difference between the light and dark areas on the screen. A 100% contrast is recommended.

1) Press the ◑(-) button on the monitor. The CONTRAST window appears.



2) Press the ◑(-)or☼(+) button to adjust the contrast.

3) When the contrast is adjusted to the level desired, press MENU to confirm and the CONTRAST window will disappear with the new adjustment saved.

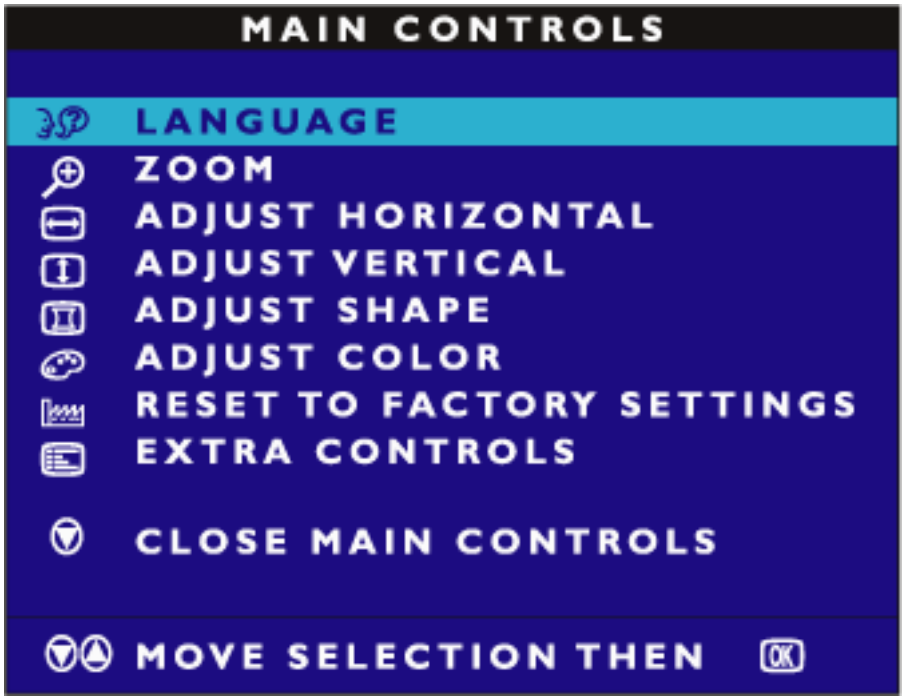
RETURN TO TOP OF THE PAGE

LANGUAGE

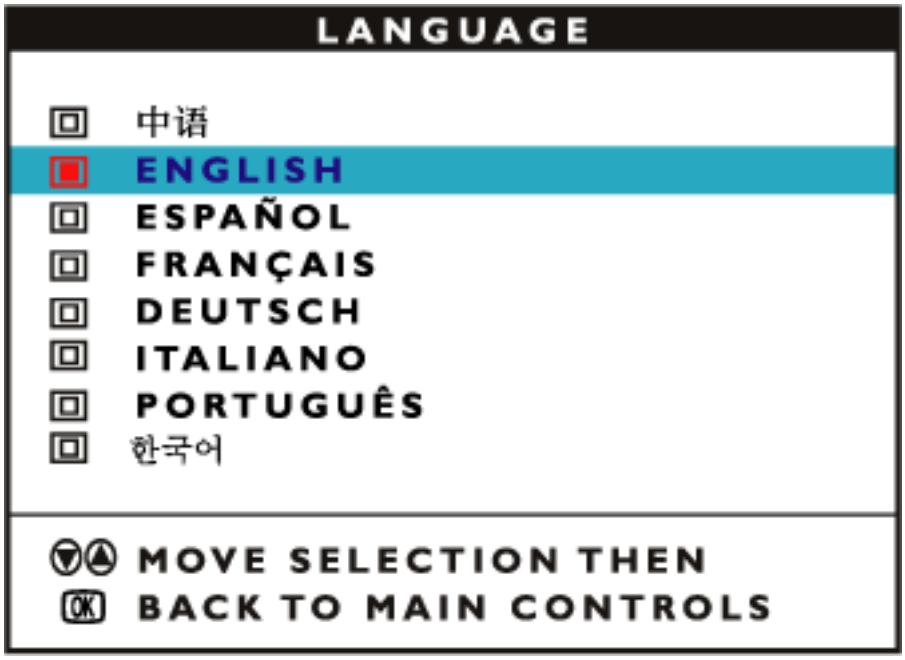
The ON SCREEN DISPLAY shows its settings in one of eight or nine languages. The default is English, but you can select French, Spanish, German, Italian, Simplified-Chinese, Korea, or Portuguese, Russian, Turkic .

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears. LANGUAGE should be highlighted.

2) Press the MENU button again. The LANGUAGE window appears.



3) Press the◑ (-)or☼(+) button until the desired language is highlighted.



4) Press the MENU button to confirm your selection and return to MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

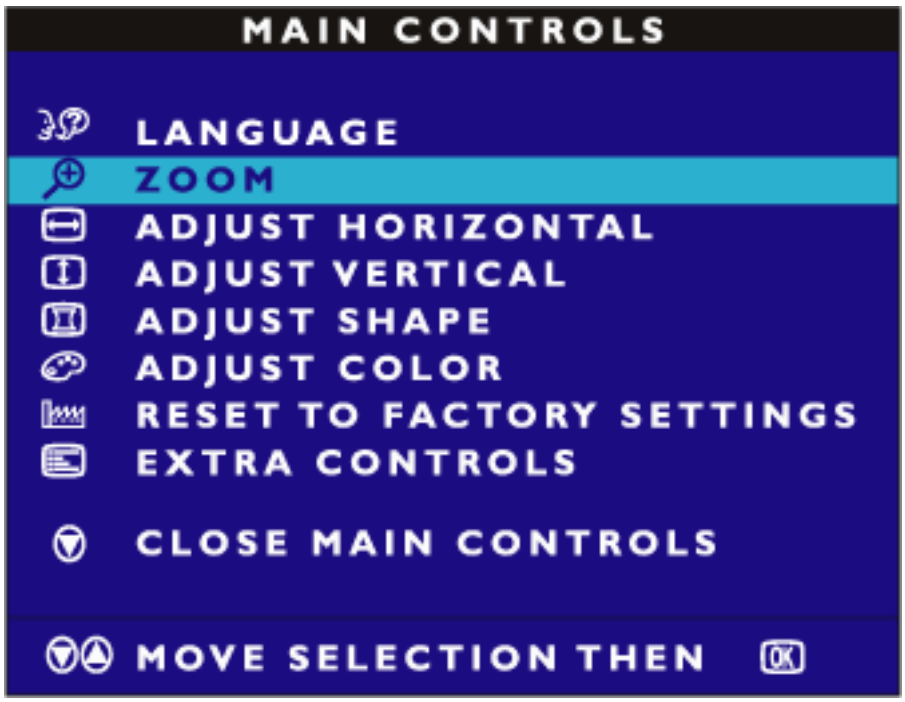
RETURN TO TOP OF THE PAGE

ZOOM

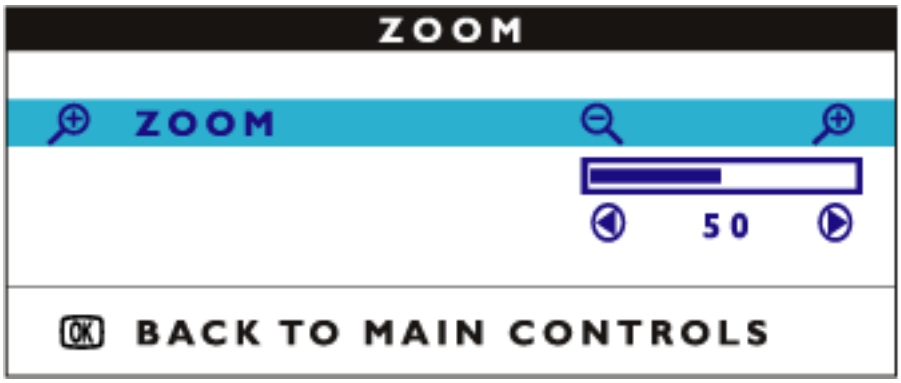
ZOOM increases or decreases the size of the images on your screen. To adjust the ZOOM follow the steps below.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+)button until ZOOM is highlighted.



3) Press the MENU button. The ZOOM window appears.



4) Press the ◑(-)or☼(+) button to adjust ZOOM.

5) Press the MENU button to confirm your selection and press MENU again to return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

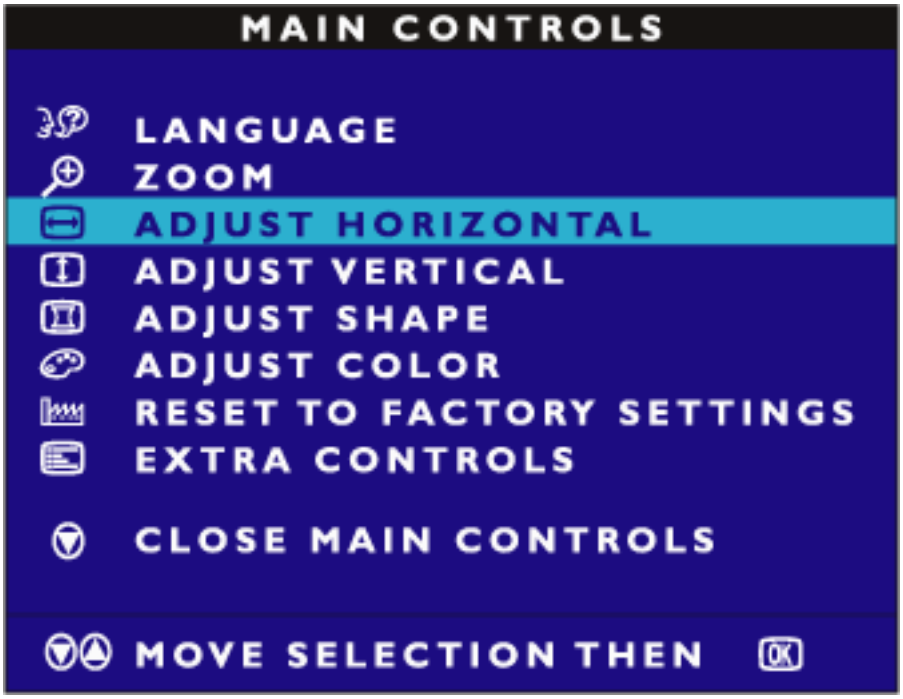
RETURN TO TOP OF THE PAGE

ADJUST HORIZONTAL

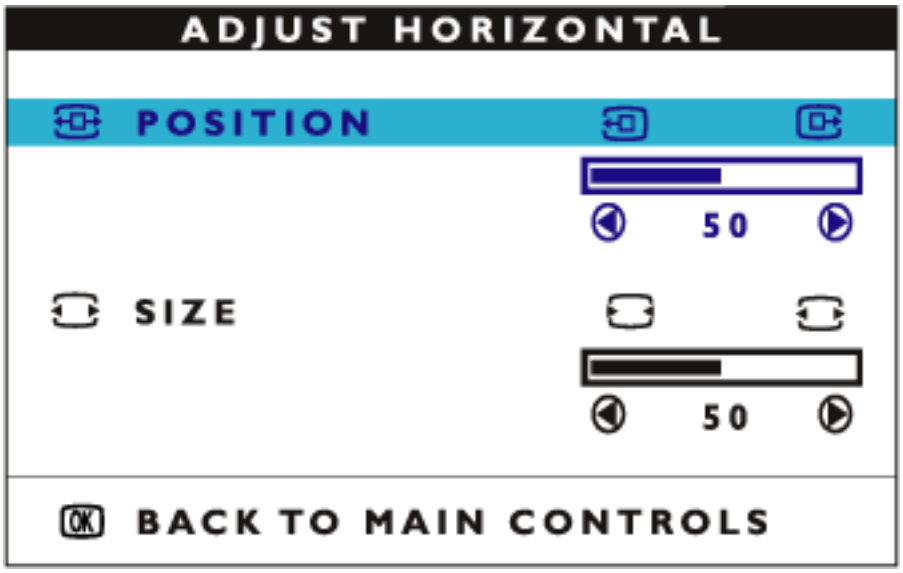
ADJUST POSITION under ADJUST HORIZONTAL shifts the image on your screen either to the left or right. Use this feature if your image does not appear centered. ADJUST SIZE under ADJUST HORIZONTAL expands or controls the image on your screen, pushing it out toward the left and right sides or pulling it in toward the center.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+)button until ADJUST HORIZONTAL is highlighted.

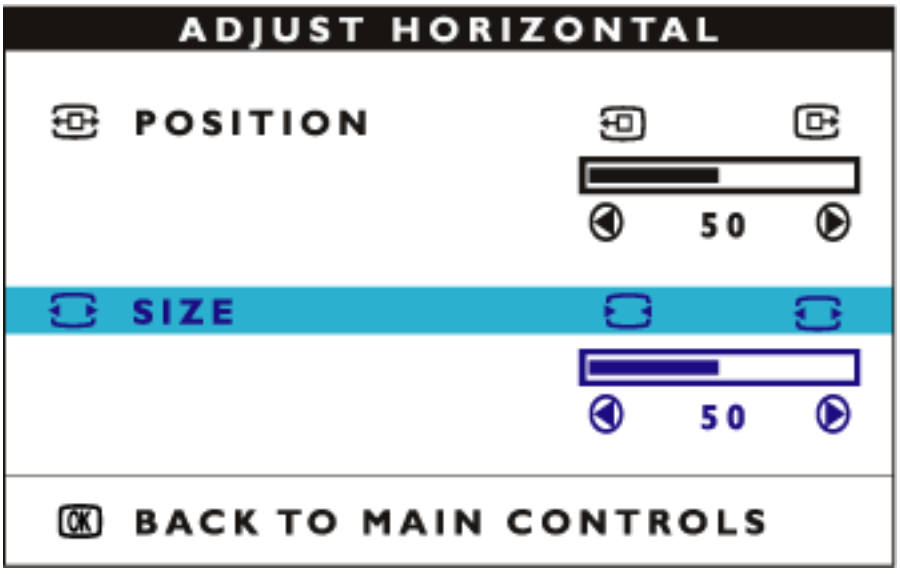


3) Press the MENU button. The ADJUST HORIZONTAL window appears. press MENU POSITION should be highlighted.



4) Press the ◑(-) or ☼(+) button to move the image to the left or right.

5) When the position is adjusted, press the MENU button to confirm. Press the ◑(-) to highlight SIZE, press MENU to confirm.



6) To adjust the horizontal size, press the ◑(-) or☼(+) button.

7) When the size is adjusted, press the MENU button to confirm. Press MENU again to return to MAIN CNTROLS window. CLOSE MAIN CONTROLS will be highlighted.

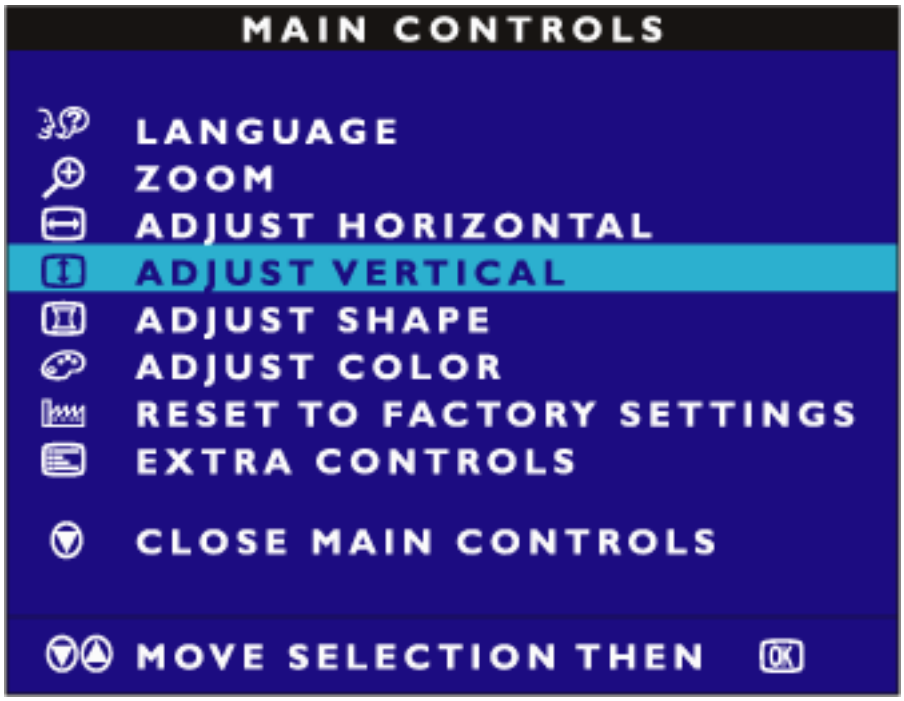
RETURN TO TOP OF THE PAGE

ADJUST VERTICAL

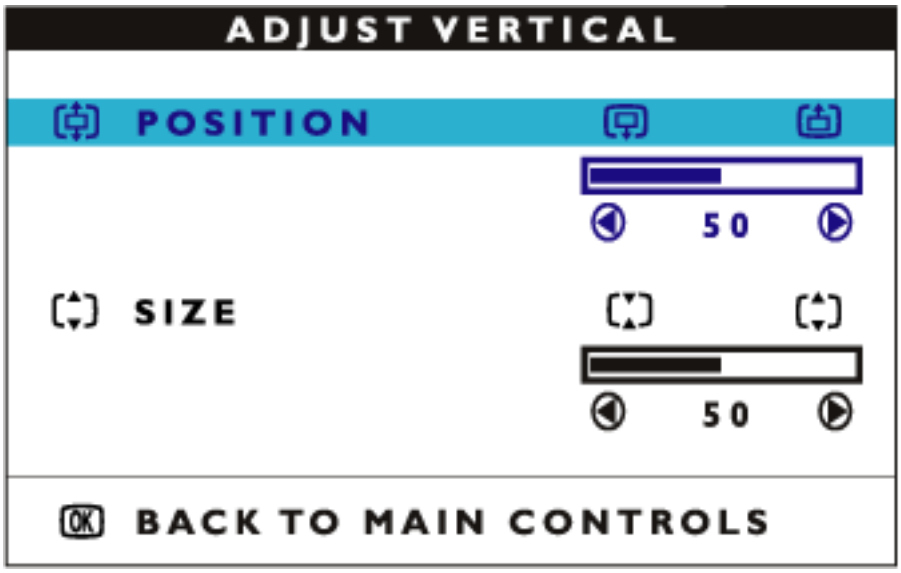
ADJUST POSITION under ADJUST VERTICAL shifts the image on your screen either up or down. Use this feature if your image does not appear centered. ADJUST SIZE under ADJUST VERTICAL expands or controls the image on your screen, pushing it out toward the top or bottom or pulling it in toward the center.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+) button until ADJUST VERTICAL is highlighted.

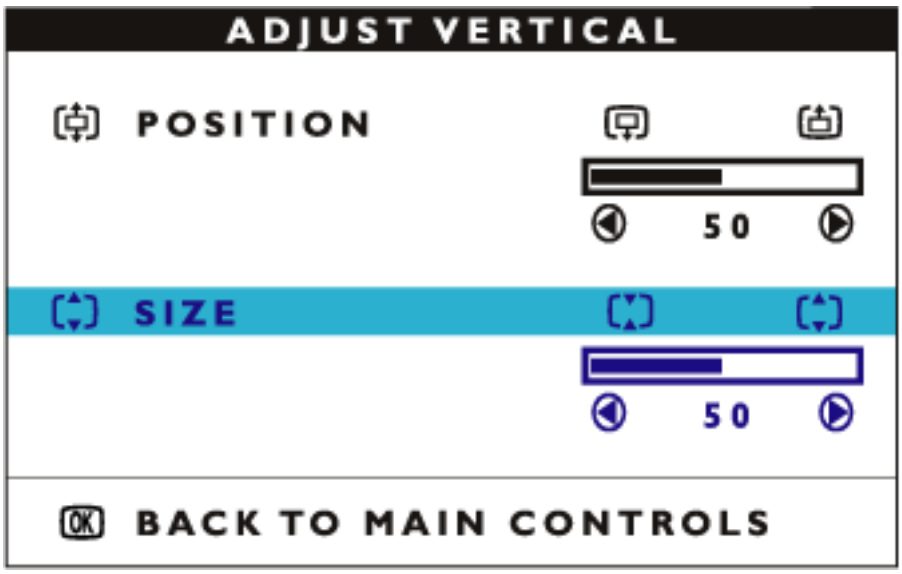


3) Press the MENU button. The ADJUST VERTICAL window appears. press MENU POSITION should be highlighted.



4) Press the ☼(+)or ◑(-)button to move the image up or down.

5) When the position is adjusted, press the MENU button. Press MENU again to return to MAIN CONTROLS window, or press the ◑(-) to highlight SIZE and MENU to confirm.



6) To adjust the vertical size, press the◑(-) or ☼(+) button.

7) When the size is adjusted, press the MENU button to confirm. Press MENU to return to MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

RETURN TO TOP OF THE PAGE

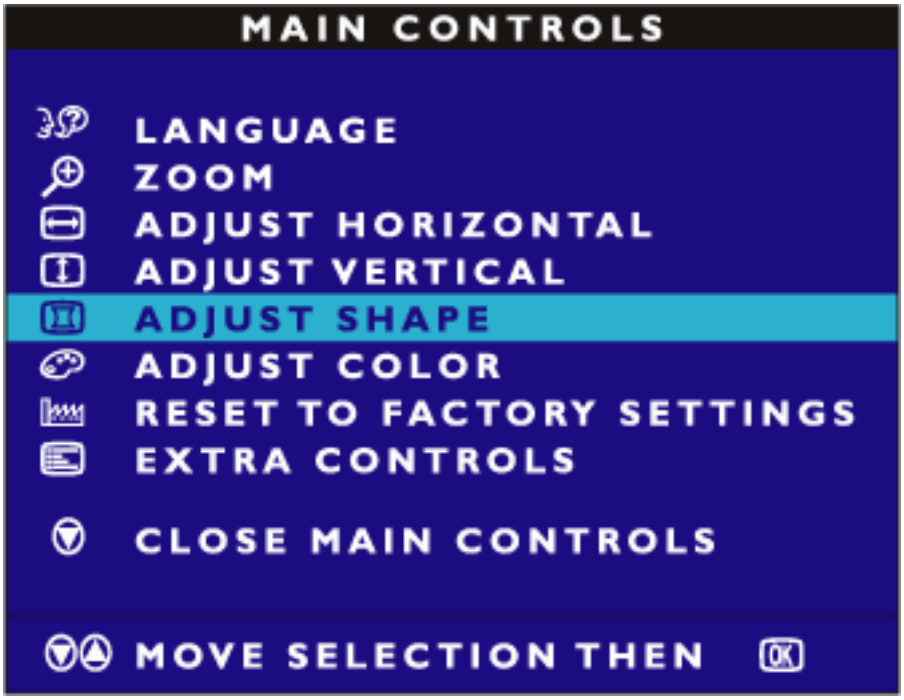
ADJUST SHAPE

ADJUST SIDE CURVE

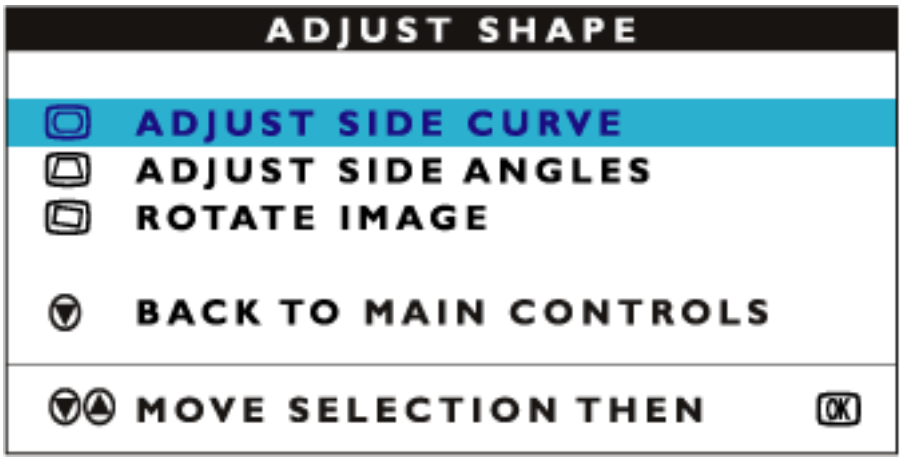
ADJUST SIDE CURVE under ADJUST SHAPE allows you to adjust two of the five preset options. These two options are PINCUSHION and BALANCED pincushion. Note: use these features only when the picture is not square.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

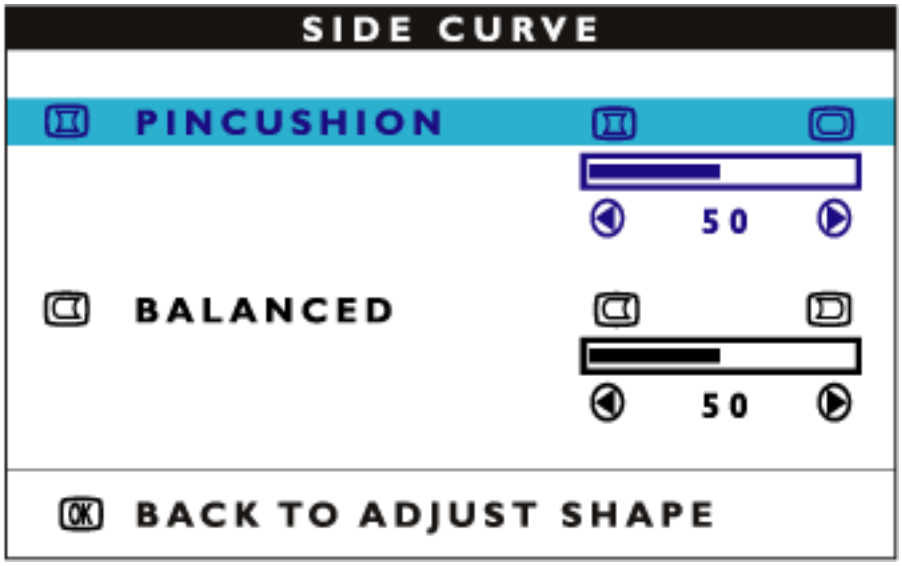
2) Press the ☼(+) button until ADJUST SHAPE is highlighted.



3) Press the MENU button. The ADJUST SHAPE window appears. ADJUST SIDE CURVE should be highlighted.

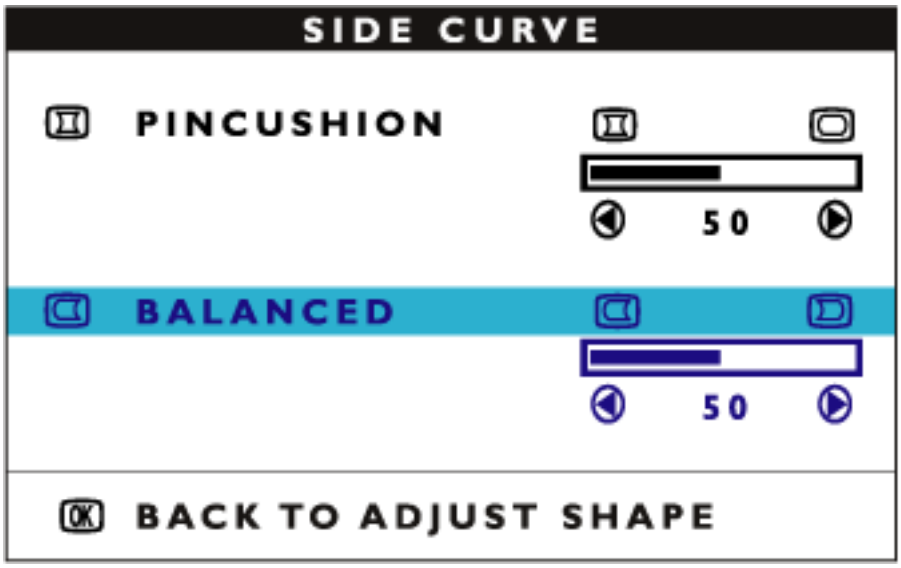


4) Press the MENU button. The SIDE CURVE window appears. PINCUSHION should be highlighted. Press MENU to confirm.



5) To adjust the pincushion, press the ☼(+) or ◑(-) button, press the MENU to confirm.

6) When the pincushion is adjusted, press the ◑(-) button to highlight BALANCED. Press MENU to confirm.



7) To adjust the balanced pincushion, press the ◑(-) or ☼(+) button.Press MENU to confirm.

8) When the balanced pincushion is adjusted, press the MENU button to return to the ADJUST SHAPE window. BACK TO MAIN WINDOWS will be highlighted.

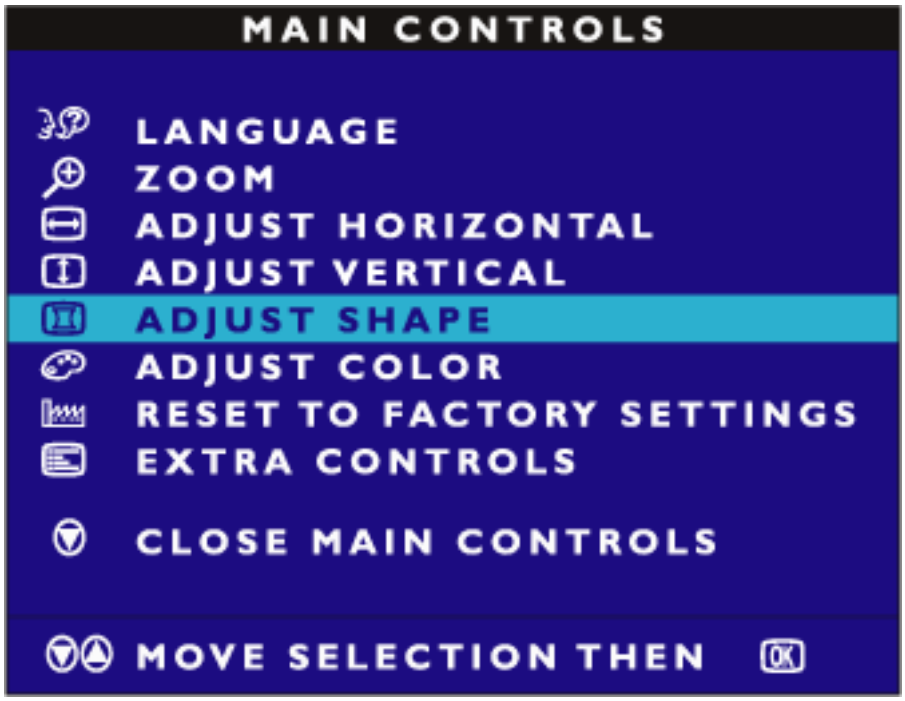
9) Press the MENU button to return to the MAIN CONTROLS window, or press the ◑(-)button until ADJUST SIDE ANGLES is highlighted.

ADJUST SIDE ANGLES

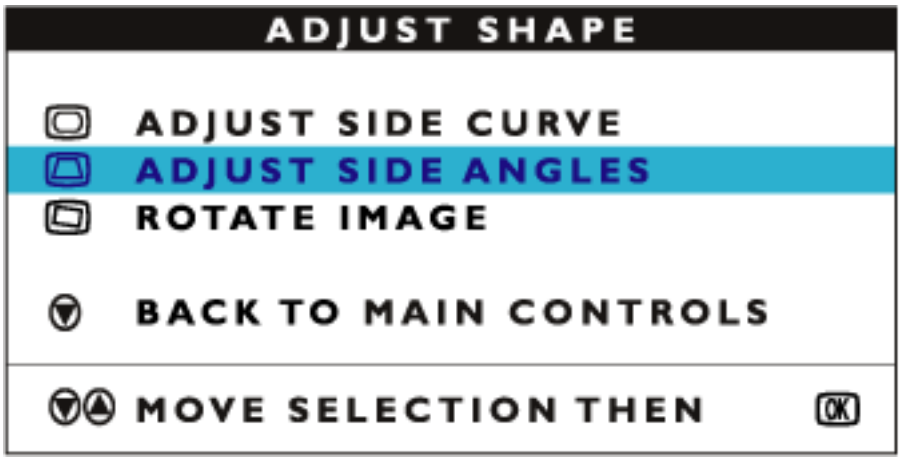
ADJUST SIDE ANGLES under ADJUST SHAPE allows you to adjust two of the five preset options. These two options are TRAPEZOID and PARALLELOGRAM. Note: use these features only when the picture is not square.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+)button until ADJUST SHAPE is highlighted.

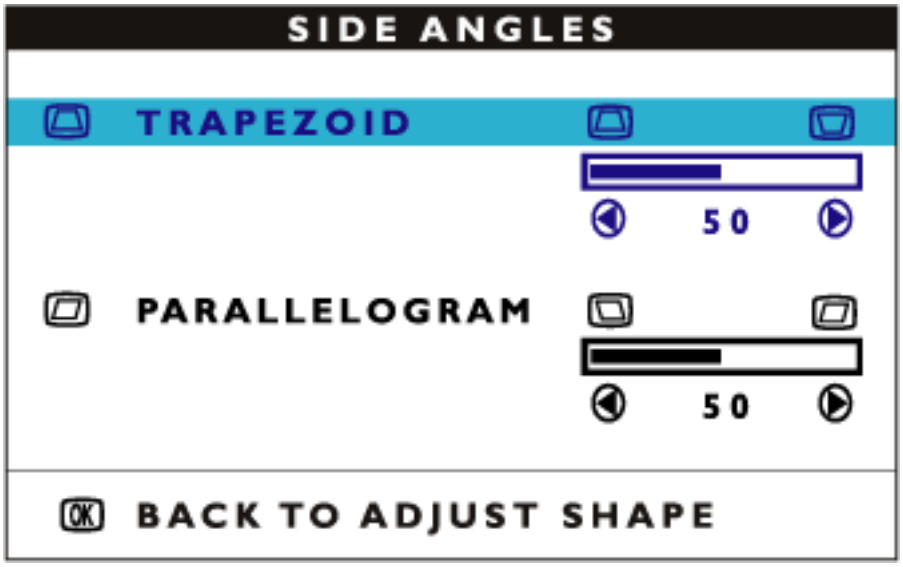


3) Press the MENU button. The ADJUST SHAPE window appears. ADJUST SIDE CURVE should be highlighted.



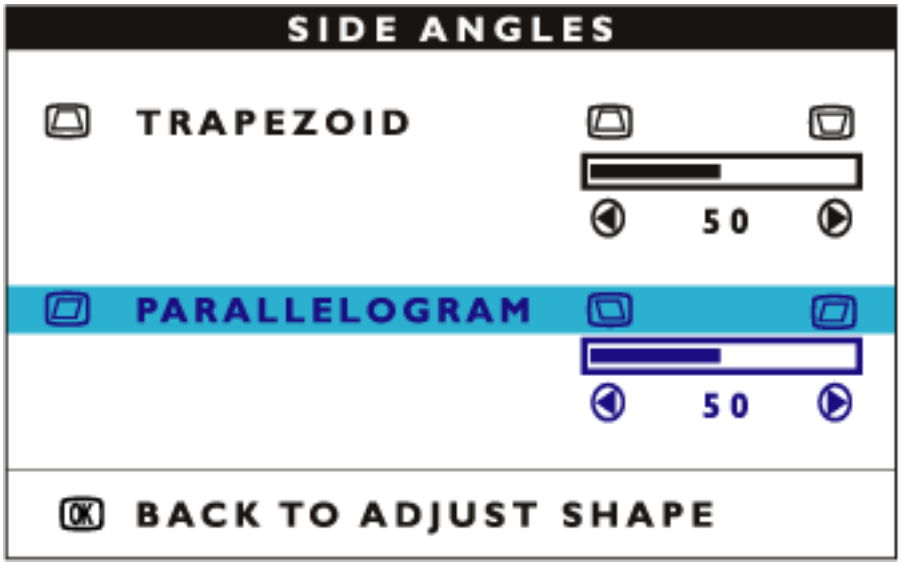
4) Press the ☼(+)button to highlight ADJUST SIDE ANGLES.

5) Press the MENU button. The SIDE ANGLES window appears. TRAPEZOID should be highlighted, press MENU to confirm.



6) To adjust the trapezoid, press the ◑(-) or ☼(+) button.

7) When the trapezoid is adjusted, press the MENU button to confirm. Then ◑(-) to highlight PARALLELOGRAM, press MENU to confirm.



8) To adjust the parallelogram, Press the ◑(-) or ☼(+) button to adjust.

9) When the parallelogram is adjusted, press the MENU button to confirm. Press MENU again to return to the ADJUST SHAPE window. BACK TO MAIN WINDOWS will be highlighted.

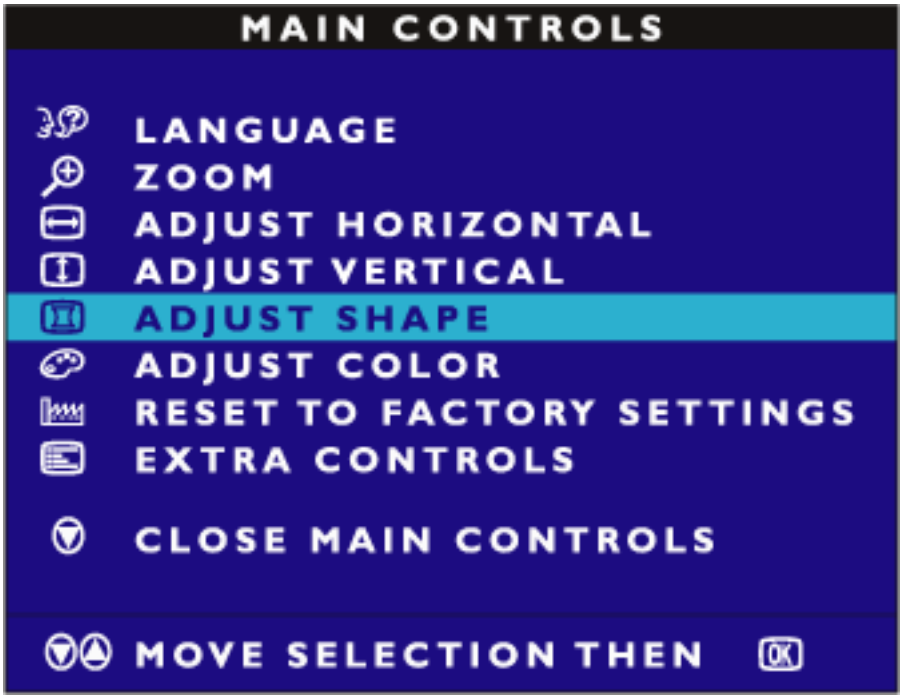
10) Press the MENU button to return to the MAIN CONTROLS window, or press the ◑(-) button until ROTATE IMAGE is highlighted.

ROTATE IMAGE (Not available in all models)

ROTATE IMAGE under ADJUST SHAPE allows you to adjust one of the five preset options. These two options are PINCUSHION and BALANCED pincushion. Note: use this feature only when the picture is not square.

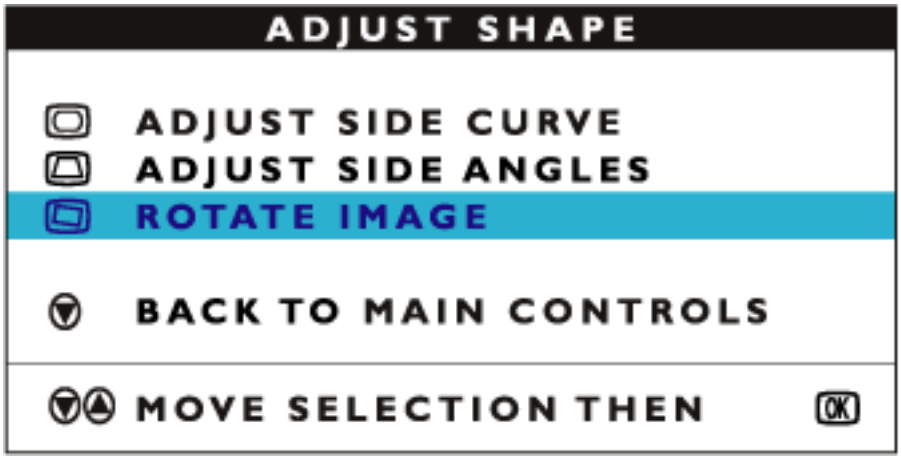
1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+) button until ADJUST SHAPE is highlighted.

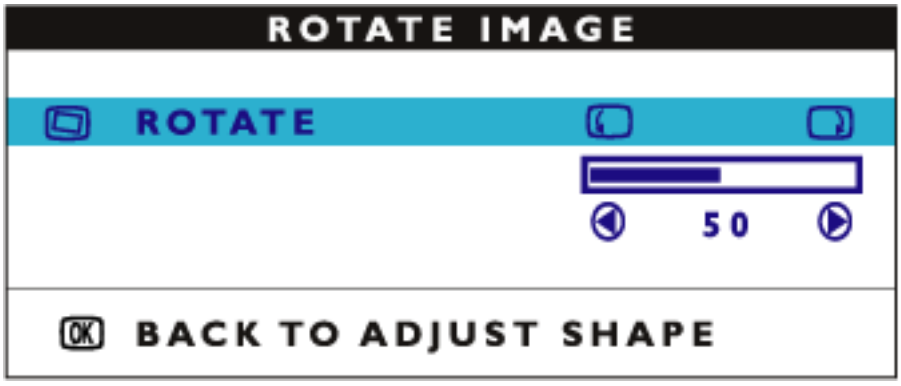


3) Press the MENU button. The ADJUST SHAPE window appears. ADJUST SIDE CURVE should be highlighted.

4) Press the ☼(+)button until ROTATE IMAGE is highlighted.



5) Press the MENU button. The ROTATE IMAGE window appears press the MENU. ROTATE should be highlighted.



6) To adjust the rotation, press the ☼(+) or ◑(-) button.

7) When the rotation is adjusted, press the MENU button to confirm. Press MENU to return to the ADJUST SHAPE window. BACK TO MAIN CONTROLS should be highlighted.

8) Press the MENU button to return to MAIN CONTROLS.

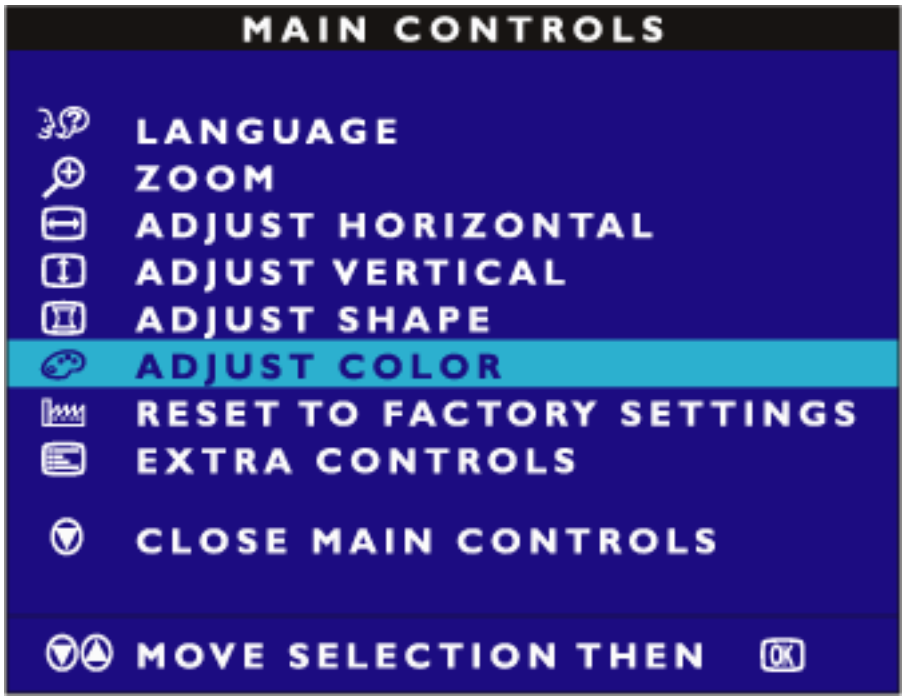
RETURN TO TOP OF THE PAGE

ADJUST COLOR

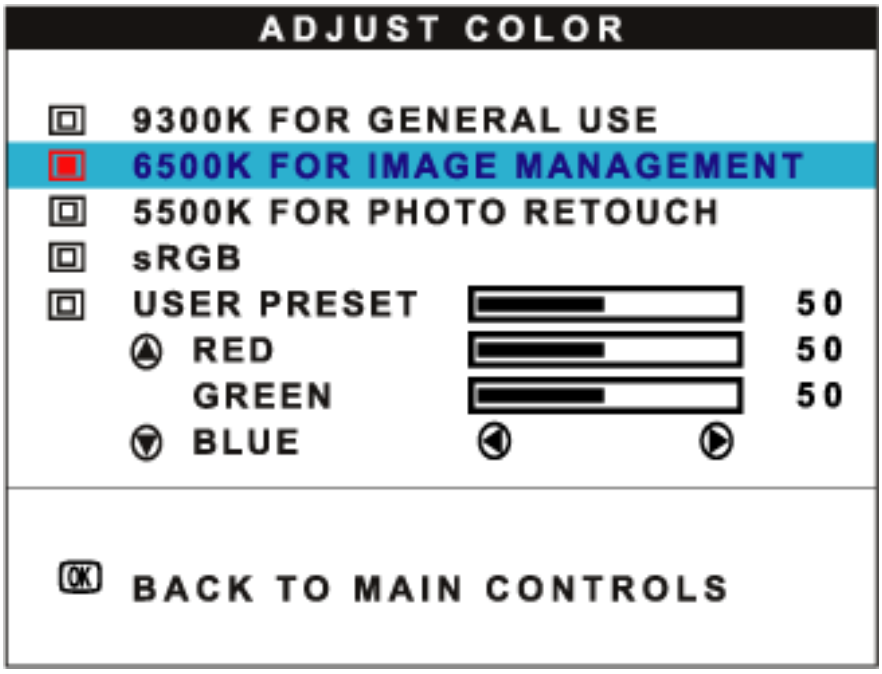
Your monitor has three preset options you can choose from. The first option is for GENERAL USE, which is fine for most applications. The second option is for IMAGE MANAGEMENT, which includes projects such as desktop publishing, viewing a DVD from your DVD player or pictures on the World Wide Web, and playing video games. The third option is for PHOTO RETOUCH, which is for working with pictures you have imported into your computer and want to alter. When you select one of these options, the monitor automatically adjusts itself to that option. There is also a fourth option, USER PRESET, which allows you to adjust the colors on your screen to a setting you desire.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+)button until ADJUST COLOR is highlighted.

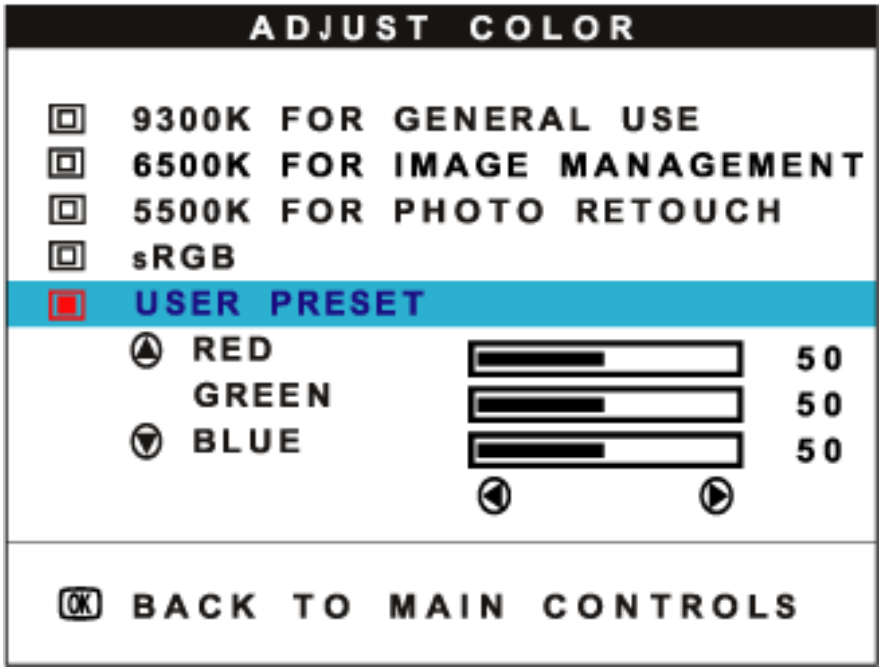


3) Press the MENU button. The ADJUST COLOR window appears.



4) Press the ◑(-) or☼(+) button to highlight 9300K for GENERAL USE, 6500K for IMAGE MANAGEMENT, 5500K for PHOTO RETOUCH, or USER PRESET.

5) Once you have highlighted GENERAL USE, IMAGE MANAGEMENT, or PHOTO RETOUCH, press the MENU button to confirm you selection. Press MENU again to return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.



6a) If USER PRESET is highlighted, press the MENU button to highlight RED. Next, press the MENU to confirm. Press ◑(-) or ☼(+) button to adjust the color red.

6b) When finished with RED, press MENU to confirm. Press the◑(-) button to highlight GREEN. press MENU to confirm. Next, press the ◑(-)or ☼(+) button to adjust the color green.

6c) When finished GREEN, press MENU to confirm. Then, press ◑(-) button to highlight BLUE. Press MENU to confirm. Next, press the ◑(-)or☼(+) button to adjust the color blue.

6d) When all adjustments are complete, press the MENU button to confirm your adjustments and press MENU return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

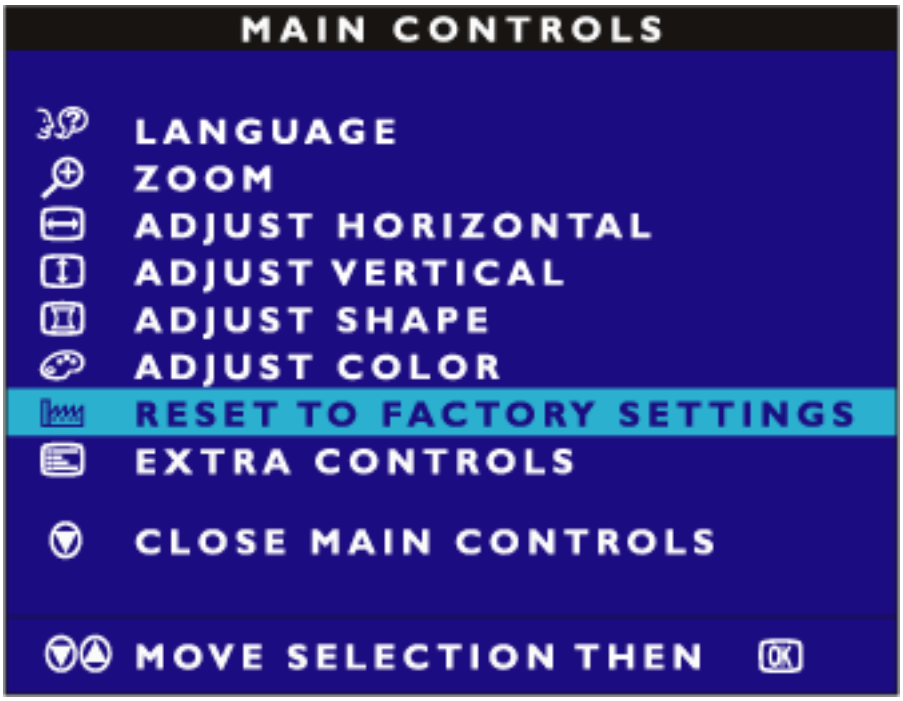
RETURN TO TOP OF THE PAGE

RESET TO FACTORY SETTINGS

RESET TO FACTORY SETTINGS returns everything in all the windows to factory presets.

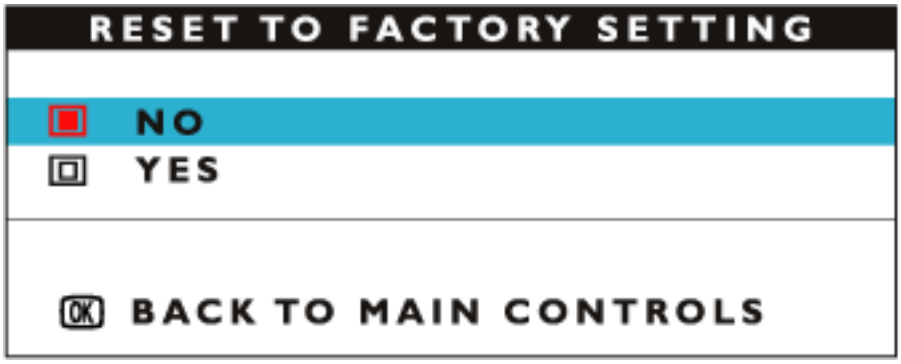
1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+) button until RESET TO FACTORY SETTINGS is highlighted.



3) Press the MENU button. The RESET TO FACTORY SETTINGS window appears.

4) Press the ◑(-)or☼(+) button to select YES or NO. NO is the default. YES returns all settings to their original factory adjustments.



5) Press the MENU button to confirm your selection and press MENU again return to the MAIN CONTROLS window. CLOSE MAIN CONTROLS will be highlighted.

RETURN TO TOP OF THE PAGE

EXTRA CONTROLS

DEGAUSS

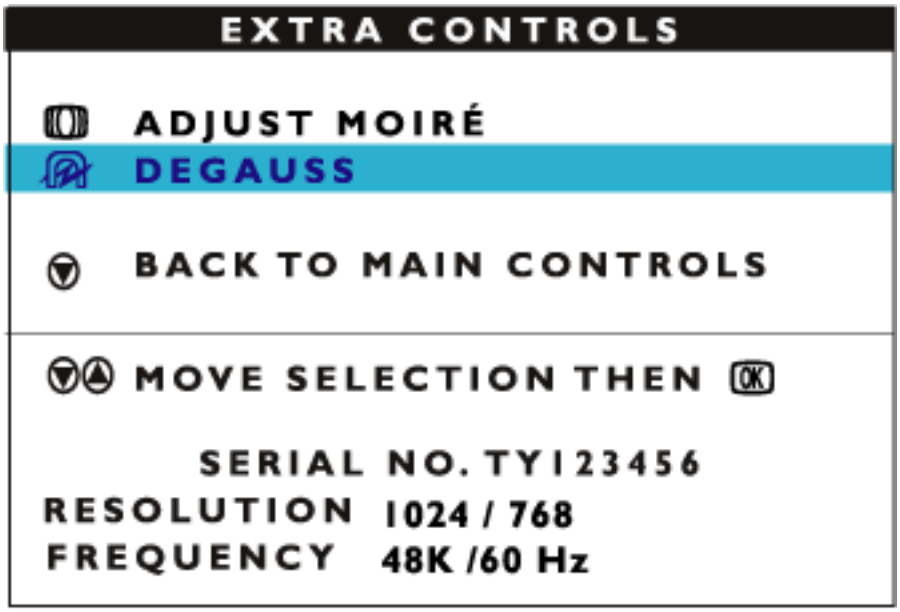
Degaussing removes electromagnetic build up that may distort the color on your screen.

1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press the ☼(+) button until EXTRA CONTROLS is highlighted.

3) Press the MENU button. The EXTRA CONTROLS window appears. MOIRE will be highlighted.

4) Press the ☼(+) button to highlight DEGAUSS.



5) To degauss your screen, press the MENU button. Your screen will be degaussed, press MENU then the MAIN CONTROLS window will reappear. CLOSE MAIN CONTROLS will be highlighted.

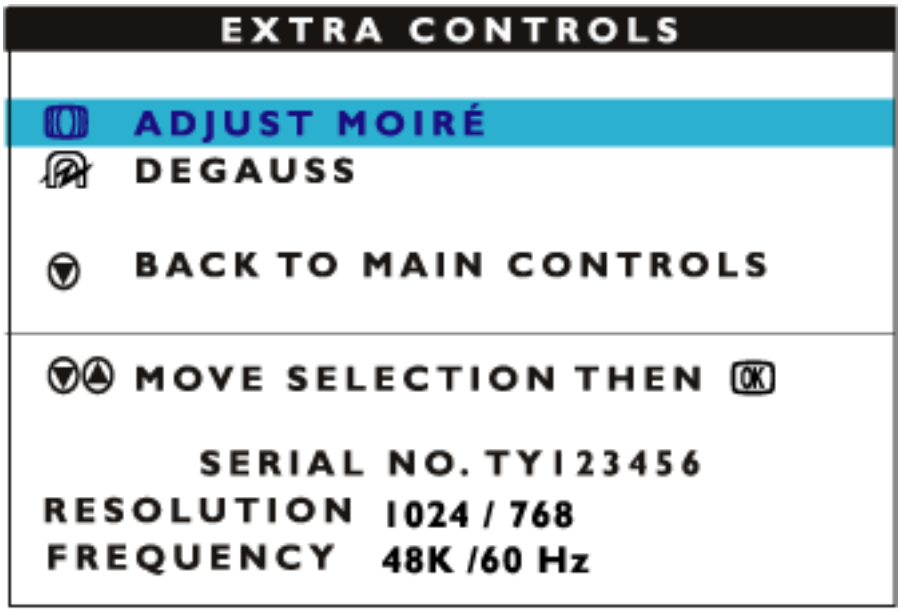
ADJUST MOIRE (Not available in all models)

Moire is a fringe pattern arising from the interference between two superimposed line patterns. To adjust your moire, follow the steps below. Note: Use only if necessary. By activating ADJUST MOIRE, sharpness can be affected.

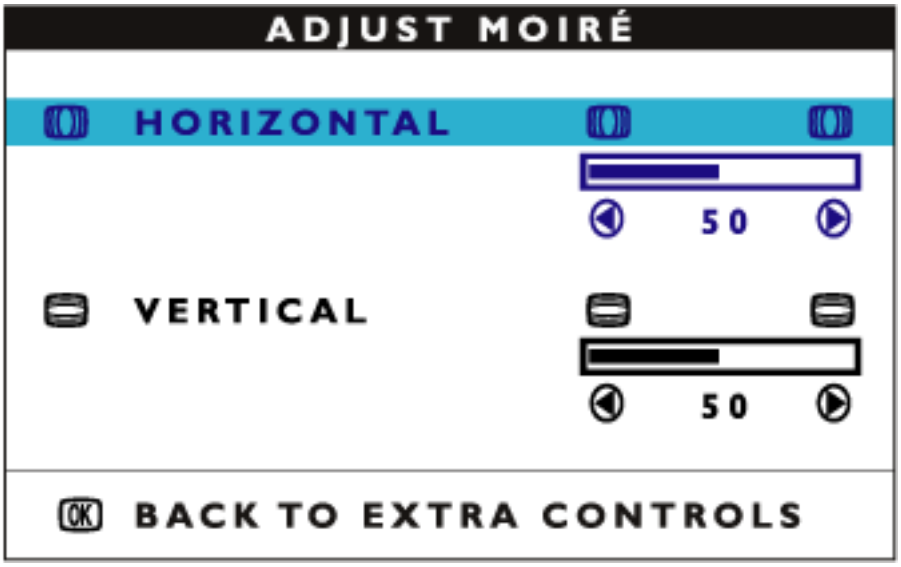
1) Press the MENU button on the monitor. The MAIN CONTROLS window appears.

2) Press ☼(+) button until EXTRA CONTROLS is highlighted.

3) Press the MENU button. The EXTRA CONTROLS window appears. ADJUST MOIRE will be highlighted.

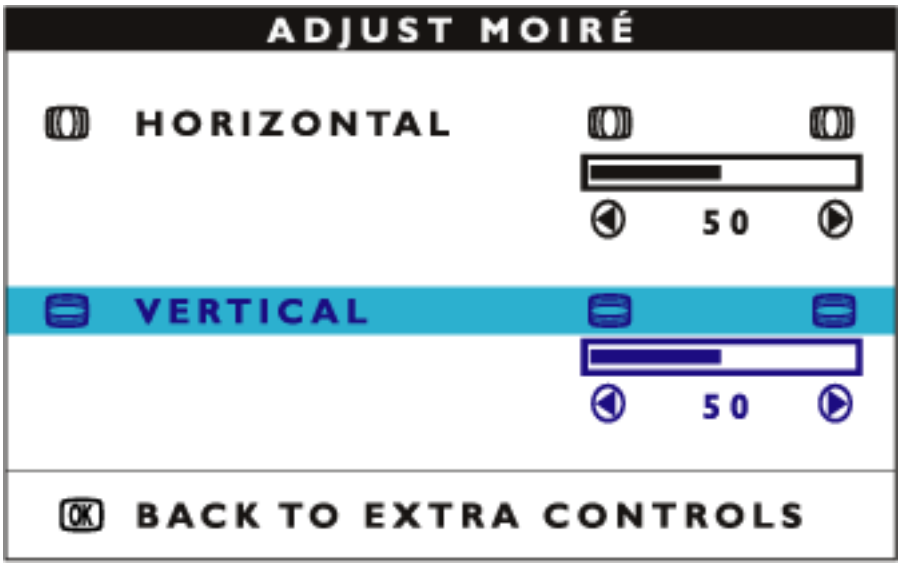


4) Press the MENU button. The ADJUST MOIRE window appears. HORIZONTAL will be highlighted, press MENUto confirm.



5) To adjust the horizontal moire, press the ◑(-)or☼(+) button.

6) When the horizontal moire is adjusted, press MENU to confirm. Press the ◑(-) button to highlight VERTICAL.



7) To adjust the vertical moire, press MENU to confirm. Then press◑(-)or☼(+) button to adjust.

8) When the vertical moire is adjusted, press the MENU to confirm. Press the MENU button to return to the EXTRA CONTROLS window. BACK TO MAIN CONTROLS will be highlighted.

RETURN TO TOP OF THE PAGE

CLOSE MAIN CONTROLS

RETURN TO TOP OF THE PAGE